

Ref. HIL/SBM/MoEF&CC/1226/2024

Date: 22-05-2024

To,

The Director General of Forest (C), Ministry of Environment & Forest and Climate Change, Integrated Regional Office, Ground Floor, Aranya Bhawan, North Block, Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh-492002

Sub: - Status of compliance of EC condition (Half yearly status of compliance report) in respect of Samri Bauxite Mine (Lease area- 2146.746 Ha.) of M/s Hindalco Industries Limited of Chhattisgarh state for the period from October 2023 – March 2024.

Ref No: - Environment Clearance Letter No-J-11015/353/2007-IA. II (M) dated July 27, 2007

Dear Sir,

We do herewith submit half yearly status of EC compliance report in respect of Samri Bauxite Mine, Lease area - 2146.746 Ha, of M/s Hindalco Industries Limited P.O- Kusmi, Dist.- Balrampur- Ramanujganj, Chhattisgarh state, PIN-497224 for the period from October 2023 – March 2024. The lease details is as below:-

Lease area	Production Capacity	Lease Period
2146.746 Ha.	500000 Tonnes	24.06.1998 to 23.06.2048 (50 years)

We trust that the measures taken towards environment safeguard comply with the stipulated environmental conditions. We assure that we comply all the conditions laid down in the consent letter and also abide to follow all the Rules and Regulations.

Thanking you,

Yours's faithfully

For, Hindalco Industries Limited

(Sanjay Pardhi) Agent of Mines

Website: www.hindalco.com
E-mail: hindalco@adityabirla.com

Corporate Identity No. : L27020MH1958PLC011238

EC Compliance for Samri Bauxite Mine (Mine Lease Area of 2146.746 Ha), Tehsil - Kusmi, District - Balrampur-Ramanujganj, State - Chhattisgarh M/s. Hindalco Industries Limited Compliance Period: October 2023 - March 2024

Name of the Project Samri Bauxite Mines (2146.746Ha. Capacity-5.00LTPA),

M/s Hindalco Industries Ltd

Environment Clearance No

& date

: J-11015/353/2007 - IA.(IIM) dated 27.07.2007

Period of compliance Report : 1st October 2023 to 31st March 2024

A. Specific Conditions

Condition-1: Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority.

Reply to Condition 1: The Wildlife Management plan has been prepared and approved by competent Authority vide letter no. 12-13-2967 dated 07.10.2013. The copy attached as *Annexure A*.

Condition-2: Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ petition (Civil) No. 460 of 2004 as may be applicable to this project.

Reply to Condition 2: We agreed to the condition.

Condition-3: Conservation plan for schedule I fauna shall be prepared in consultation with Wildlife Department and submitted to the ministry for record.

Reply to Condition 3: The Conservation plan for schedule I fauna have been prepared and approved by competent authority submitted to ministry. The detail list of flora and fauna along with the approved conservation plan is attached as *Annexure B*.

Condition-4: A comprehensive report on the details of land oustees, their socio- economic profile and action plan for their rehabilitation including formation of self-help group who can facilitate promotion of economic opportunity to local indigenous people shall be submitted to the Ministry for record.

Reply to Condition 4: A copy of report has been submitted to ministry. To encourage and improve local economics company has taken several initiative programme, where local people are being trained to perform different activities viz, making of soaps, detergents, candles, making of leaf plates etc. Under CSR activities SHG groups are formed, in total there are 21 no. of SHGs and 212 Beneficiaries who are directly engaged in income generation activities. *Detailed list of SHG is enclosed as Annexure C.*

Condition-5: Top soil, if any shall be stacked properly with proper slope with adequate safeguards and shall be backfilled (wherever applicable) for reclamation and rehabilitation of mined out area.

Reply to Condition 5: The top soil generated during mining operation is being concurrently spread on backfilled area to restore its original forms immediately. However, when required it is being stacked properly with proper slope followed by parapet wall to prevent sliding.





Backfilling Photos

Condition-6: Over burden (OB) shall be stacked at earmarked dump site (s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30m, each stage shall preferably be of 10m and over all slope of the dump shall not exceed 28°. The OB dump shall be backfilled. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly basis.

Reply to Condition 6: Presently there is no active OB dump at mines. As per approved Mining Plan OB generated during mine operation is being utilized for concurrent back filling of the mined-out area for reclamation purpose. Small old inactive OB dump of an area of 1.66Ha. has been stabilized by vegetation with suitable native species to prevent erosion and surface run off. Garland drain with check dam have been provided to arrest silt and sediments flowing from above mentioned OB dump.





Plantation in Old OB Dump

Condition-7: Garland drains shall be constructed to arrest silt and sediment flows from soil and mineral dump. The water so collected shall be utilized for watering the mine area, roads, greens belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

Garland drain size, gradient and length shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garlands drains and desilted at regular intervals.

Reply to Condition 7: Garland drains approx. 200m long along with retaining wall of appropriate size (1m height x 0.5m width x 250m length) and gradient have been made around the active mining pits coupled with silt arrester to arrest silt from run-off and drains are being maintained and desilted at regular intervals before monsoon. The Water is being collected in the sump and used for plantation & in sprinkling of the Haul Road. The sump capacity Rainwater pond of adequate capacity has also been developed.





Photographs of garland drains and parapet wall

Condition-8: Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines.

Reply to Condition 8: The slope of Mining bench is maintained approx. 45° and the height 3-4m and ultimate pit is being maintained as per provision of approved mining scheme. We also ensure that within this pit limit we can mine the deposit economically and safely.

Condition-9: Drilling and blasting (if any) shall be conducted by using dust extractors/wet drilling. **Reply to Condition 9:** Cabin mounted Wet drilling machine is being used in drilling operations. To reduce the dust emission due to blasting we use X-centric ripper instead of blasting.





Condition-10: Plantation shall be raised in 53.87 ha of the ML area, haul roads, OB dump sites etc. Green belt development shall be carried out considering CPCB guidelines including selection of plant spacies and in consultation with the local DFO/Agriculture Department. Herbs and shrubs shall also form a part of afforestation programme beside tree plantation. The density of the trees shall be around 2500 plants per ha. The company shall involve local people with the help of self-help group for plantation.

Reply to Condition 10: We have already achieved the target area asked for plantation. However, we are continuing the plantation to restore the biodiversity. In the FY 2023-24, total 31651 nos. of saplings have been planted over an area of 10.56ha. and in total till now about 161.455 ha area has been afforested with approx. 384611 nos. of saplings. The plantation in reclaimed area is carried out as per plan and being carried out as suggested by local government authority. The density is being maintained about 2500 saplings per hectare with the species like Karanj, Arjun, Gulmohar, Bamboo, bakayan, Pears, Jamun, Amla & guava, etc. Apart from this, Tea plantation project has been started in Samri with a focus on Local Economic Development. We planted 16,000 Tea saplings on 2 Ha. of reclaimed land. Social forestry is also being encouraged among the local villagers. Year wise plantation is enclosed as **Annexure D**.







Plant Sampling culture in our Nursery

Condition-11: The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.

Reply to Condition 11: Six nos. of rainwater harvesting Ponds of an area approx. 7.9Ha. and well of size 5Ft.X10Ft. have been constructed as conservation measures in mined out area for the conservation/augmentation of ground water resources. This further adds to Water Credit of the lease area.





Rain Water Harvesting Pond

Recharge well

Condition-12: Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year-pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board.

Reply to Condition 12: Ground water quality monitoring is being carried out regularly on quarterly basis. The analysis reports are being submitted to CECB, Raipur. Regular monitoring of ground water level is being carried out by piezometer installed at strategic location in the lease area and is found below the level of mining operation. The ground water Quality report and the GW level data is attached in *Annexure E*.

Condition-13: Prior permission from the competent authority shall be obtained for drawl of ground water, if any.

Reply to Condition 13: Ground water NOC has been obtained from CGWA vide letter no. CGWA/NOC/MIN/REN/2/2023/7572 dated 03.04.2023 with validity up to 28.04.2025. Also

digital water meters with telemetric system have been installed in the lease area at strategic location for monitoring water consumption. The GW NOC copy attached as *Annexure-F*.

Condition-14: Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation ores and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles transporting ores shall be covered with a tarpaulin or other suitable enclosures so that no dust particles/ fine matters escape during the course of transportation. No overloading of ores for transportation shall be committed.

Reply to Condition 14: Regular and periodic maintenance of HEMM is being carried out for control of vehicular emission in mines area. The bauxite ore are transported in trucks with tarpaulin cover up to EUP/Railway siding to prevent dust emission. Vehicle used for transportation are having valid permit and PUC. No overloading of ores for transportation is allowed to prevent spillage of material.



Condition-15: A Final Mine Closure Plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment & Forests, 5 years in advance of final mine closure for approval.

Reply to Condition 15: We accept the condition. A progressive mine closure plan approved by

IBM is in place. IBM is competent authority to approve the final mine closure plan. Based on the present resource estimate, and peak rated production capacity, the tentative balance life of mine is around 37 years. Final Mine closure plan along with details of Corpus fund will be submitted within prescribed timelines in accordance with law to competent authority.

B. General Conditions

Condition-1: No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.

Reply to Condition 1: Presently there is no change in technology. In future, when required prior permission will taken from the approval authority.

Condition-2: No change in the calendar plan including excavation, quantum of mineral bauxite ore shall be made.

Reply to Condition 2: Calendar plan (IBM Approved Mining Plan/scheme) prepared for the mine is being followed.

Condition-3: Conservation measures for protection of flora and fauna in the core and buffer zone shall be drawn up in consultation with the local forest and wildlife department.

Reply to Condition 3: Company has already deposited Rs.1.6 crore to competent authority for the implementation of measures for the protection of flora and fauna under approved wildlife conservation plan. The suggestions of local forest department are being implemented for conservation of flora and fauna in and around lease hold area. Important measure being implemented for conservation of flora and fauna are as follows.

- a) Company has provided solar LED torch and florescent Jackets to Staff of forest department, Ambikapur for patrolling and monitoring the movement of wildlife, encroachment, cutting, poaching, fire etc.
- b) Veterinary camp is being conducted for immunization of cattle with the help of block veterinary staff.
- c) Awareness program related to wildlife conservation is being conducted.
- d) Eco-development activities like poultry, piggery, bee keeping etc. are being organized.
- e) Controlled blasting is being carried out to reduce vibration and noise. Such operation is being carried out in day time only and its use is minimized.
- f) Plantation is regular activity along with the development of greenbelt all around the Lease Area
- g) "Aditya Udyan" has been developed on 2.6Ha. of Reclaimed land and a wide variety of fruits saplings like Mango, Guava, Litchi and pears are planted along with a centrally developed Rose garden.
- h) Integrated Fish Farming has been started at Aditya Udyan, Gopatu in Samri operational area and 25000 fish spawns has been released, with an objective to help the local communities for diversification of Income Sources. This has been done in consultation with Govt. body.
- With a vision on sustainability, we have also developed a BioPak that transcends the bounds of traditional parks. With 15 acres of reclaimed mined land this please is a testament to the

resilience of nature and a beacon for the future. This has been developed with an objective of Economic development, Environmental education, Health and recreation and a place for community engagement and further to pave way for Mine tourism – an upcoming concept of time.

j) We have also carried out plantation outside our lease area in various School, NGOs etc. on special occasion as an initiative to spread awareness about the importance of afforestation.





Aditya Udyan







Samri Bio-Park

Condition-4: Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO₂, NOx, monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.

Reply to Condition 4: Ambient Air quality monitoring has been established at strategic locations and the monitoring is being carried out as per guidelines. For the purpose, we have engaged NABL accredited laboratory M/s. Anacon Laboratories Pvt. Ltd. for conducting regular environmental monitoring. Analysis Report (from Oct' 23 to Mar' 24) is enclosed as *Annexure-G*.

Condition-5: Data on ambient air quality (RPM, SPM, SO₂, and NOx) should be regularly submitted to the Ministry including its Regional office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.

Reply to Condition 5: Data of ambient air quality (RPM, SPM, SO2, and NOx) are being submitted to CECB and are being submitted to other regulatory authorities as per guidelines. Data of ambient air quality (RPM, SPM, SO2 and NOx) from Oct' 23 to Mar' 24 is enclosed as *Annexure-G*.

Condition-6: Fugitive dust emission from all the sources shall be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.

Reply to Condition 6: Wet drilling, regular water spraying with 12 KL portable water tanker in the mine lease hold area is being carried out regularly to control the fugitive emission at source. Rainwater collected into the mine pit is being utilized for dust suppression purpose. Black top road has been constructed up to pit head to reduce dust problem.



Water Sprinkling in haul road



Black top Road to the mines

Condition-7: Measures shall be taken for control of noise levels below 85dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs.

Reply to Condition 7: The noise level in working area is being maintained below the prescribed limit. As protective measures, workers engaged in operations of HEMM, etc. is being provided with ear plugs / muffs. The proper maintenance of HEMM is being carried out to control noise emission.

Sl.	Month	Month Samri Gopatu/Near Weigh Bridge			Near Mining Area			
No.	Month	Min.	Max.	Avg.	Min.	Max.	Avg.	
1	Oct-23	72.8	74.6	73.7	68.2	71.4	69.8	
2	Nov-23	67.2	71.4	69.3	69.3	72.8	71.1	
3	Dec-23	73.8	74.6	74.2	68.2	71.3	69.8	
4	Jan-24	74.9	78.2	76.6	67.1	71.6	69.4	
5	Feb-24	71.3	76.2	73.8	69.7	73.8	71.8	
6	Mar 24	68.2	72.0	71.1	71.6	71.0	72.2	

HEMM Spot Noise Level (dB(A) Leq) Monitoring



Plantation for Noise Acoustic barrier

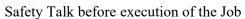
Condition-8: Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.

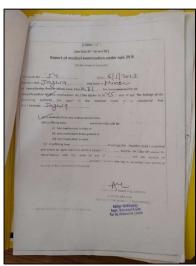
Reply to Condition 8: There is no waste water generated from the mining operation. So, there is no liquid discharge from mine. Waste water generated from the workshop is being treated in the Oil & grease separation Pit and the water after treatment is being used in dust suppression in the haul road.

Condition-9: Personal working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.

Reply to Condition 9: Company has provided adequate personal protective equipment to all workers and it is also ensured that they use the same. Regular awareness training are also being imparted to them for safety & health in our Group vocational training Centre as per guidelines. All employees working in our mining lease area, undergo IME/PME at regular interval to observe any contractions due to exposure to dust and other occupational hazards.







PME copy

Condition-10: Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

Reply to Condition 10: Periodical and Initial medical examination of all workers are being carried out as per provision of Mines Act.

Condition-11: A separate environmental management cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.

Reply to Condition 11: Environment cell is already in place at Samri Mines Division headed by Head (Mines) and comprises of suitable qualified persons. Constitution of Environment Management cell is enclosed in *Annexure-H*.

Condition-12: The project authorities shall inform to the Regional Office of the Ministry located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

Reply to Condition 12: The requisite documents have been submitted to the regional office of the Ministry, Bhopal before commencement of development & operation in 1999. However, as the

EC Compliance for Samri Bauxite Mine (Mine Lease Area of 2146.746 Ha), Tehsil - Kusmi, District - Balrampur-Ramanujganj, State - Chhattisgarh M/s. Hindalco Industries Limited Compliance Period: October 2023 - March 2024

current regional office has changed to Raipur region, we are again resubmitting the information to the IRO Raipur vide letter no. HIL/SBM/MoEF&CC/1202/2024, dated 20-03-2024.

Condition-13: The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bhopal.

Reply to Condition 13: Adequate fund provision is already earmarked for environmental protection measures and will not be diverted to other purpose. The year wise expenditure is being submitted to concern authorities as per guidelines. The copy of environment expenditure is enclosed as *Annexure J*.

Condition-14: The project authorities shall inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development.

Reply to Condition 14: The requisite documents have been submitted to the regional office of the Ministry, Bhopal before commencement of development & operation in 1999. However, as the current regional office has changed to Raipur region, we are again resubmitting the information to the IRO Raipur vide letter no. HIL/SBM/MoEF&CC/1202/2024, dated 20-03-2024.

Condition-15: The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.

Reply to Condition 15: All cooperation is being extended to regulatory authorities.

Condition-16: A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.

Reply to Condition 16: We have forwarded the copy of clearance letter to Panchayat /local NGO in our area. The copy of same has already been submitted to your good office.

Condition-17: State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/Tehsildar's office for 30 days.

Reply to Condition 17: The copy has been displayed by CECB in Surguja Collectorate.

Condition-18: The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic and a copy of the same shall be forwarded to the Regional Office of this Ministry located Bhopal.

EC Compliance for Samri Bauxite Mine (Mine Lease Area of 2146.746 Ha),

Tehsil - Kusmi, District - Balrampur-Ramanujganj, State - Chhattisgarh

M/s. Hindalco Industries Limited Compliance Period: October 2023 - March 2024

Reply to Condition 18: The information regarding environment clearance has been published in two local newspapers Hari Bhumi & Ambika Vani. The copy of same has been already submitted to your good office. News paper clip is enclosed in *Annexure I*.

Condition-19: The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

Reply to Condition 19: Noted

Condition-20: Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

Reply to Condition 20: Noted

Condition-21: The above conditions shall be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

Reply to Condition: Noted

Hope the above compliance will be found in order.

Yours truly,

(For Hindalco Industries Limited)

(Sanjay Pardhi)

Samri Mines Division Hindalco Industries Ltd

Agent of Mines

Encl.: As above

कार्यात्र प्रधान मुख्य वंज शंखक (वन्यप्राणी प्रवधक एवं जेव किविधता शरक्षण सह मुख्य वन्यप्राणी अभिरक्षक), हत्तीसगढ

अरण्य भवन, में डिकल कॉलेज राड, रायपुर

THE - pecful@saly.com

(Ph 0771-2552228, Fax (1771-2552227)

क्रमाक/ब प्रा /प्रवध- 12/13/ द्रि?हिंद्री

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संचालक, इन्वायरनमेंट क्लीयरेंश सेल भारत सरकार, वन एवं पर्यावरण मंत्रालय, पर्यावरण भवन, सी.जी.ओ. काम्प्लेक्स, लोधी रोड. नई दिल्ली—111003

- विषय:- छत्तीसगढ़ के बलरामपुर जिले (तत्कालीन सरगुजा जिला) में स्थित सामरी बॉक्साईट माईन्स, कुदाग बॉक्साईट माईन्स एक टाटीझरिया बॉक्साईट माईन्स की क्षमता बढ़ाये हेतु ईन्वायरमेंट क्लीयरेंस।
- संदर्भ:- 1. पर्यावरण व वन मंत्रालय, मारत सरकार का पत्र क्रमांक J-11015/353/2007-IA.II(M) दिनांक 27 जुलाई 2007.
 - पर्यावरण व वन मंत्रालय, भारत संरकार का पत्र क्रमांक J-11015/337/2007-IA.II(M) दिनांक
 27 जुलाई 2007.
 - पर्यावरण व वन मंत्रालय, भारत सरकार का पत्र क्रमांक J-11015/337/2007-IA.II(M) दिनांक 9 अगस्त 2007.

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कृपया आपके उपरोक्त संदर्भित पत्रों का अवलोकन करने का कष्ट करें। जिसके द्वारा बलरामपुर जिले (पुराने सरगुजा जिले) के सामरी बॉक्साईट खुली खदान (1 LTPA) की क्षमता बढ़ाकर (5LTPA) करने, कुदाग बॉक्साईट खदान (0.4 LTPA) की क्षमता बढ़ाकर (0.6 LTPA) करने तथा टाटीझरिया बॉक्साईट खदान (0.5 TPA) की क्षमता बढ़ाकर (4 TPA) करने के परियोजना प्रस्ताव के संबंध में वन्य प्राणी (संरक्षण) अधिनियम, 1972 के तहत अनुसूची—1 के वन्यप्राणियों हेतु "वन्य प्राणी संरक्षण व प्रबंधन योजना" तैयार की जाकर इस कार्यालय की सहमति दिये जाने का लेख किया है।

1. विषयांकित परियोजना हेतु खदान के लीज के अनुबंध दिसंबर 1996 एवं जून 1998 में हस्ताक्षरित हुये थे। सामरी क्षेत्र में भारत सरकार पर्यावरण व वन मंत्रालय के आदेश क्रमांक J-11015/353/2007-IA.II/M दिनांक 27 जुलाई, 2007 द्वारा 2146.746 है. में, कुदाग क्षेत्र में भारत सरकार पर्यावरण व वन मंत्रालय आदेश क्रमांक J-11015/354/2007-IA.II/M दिनांक 27 जुलाई 2007 द्वारा 377.116 है. में, तथा टाटीझरिया में भारत सरकार पर्यावरण व वन मंत्रालय के आदेश क्रमांक J-11015/337/2007-IA.II/M दिनांक 9 अगस्त 2007 द्वारा 1218.762 है, में बॉक्साईट खनन की स्वीकृति प्राप्त कर संस्था द्वारा खनन का कार्य किया जा रहा है।

, See

किया जाना. कुदाम के लिए ए मानार के कार माना माना किया 10.18 के माना के लिए का मानार के कार माना परतायित है। भारत सरकार पर्यावरण व वन मजालय के द्वारा उपरोक्त की का प्राप्त की माना वरण की रवीकृति कमश आवेश क्रमाक 1-11015/353/2007-IA.II/M दिनाक 77 ज्लाई 7007, 1 11015/354/2007-IA.II/M दिनाक 27 जुलाई 2007 एवं 1-11015/337/2007-IA.II/M दिनाक 9 अगरत 2007 द्वारा कुछ शतों के साथ दी गई है. जिसमें एक महत्वपूण शर्त यह भी उल्लेखित है कि संबंधित क्षेत्र में वन्य प्राणी (संरक्षण) अधिनियम के शेड्यूल 1 के पाये जाने वाले वन्य प्राणियों के संरक्षण हेतु प्रबंध योजना तैयार की जाकर राज्य के मुख्य वन्य जीव अभिरक्षक के अभिमत सहित प्रस्तुत किया जाये। जिसके पालन में संरक्षा द्वारा एक वन्य प्राणी संरक्षण योजना तैयार की गयी है।

- खनन क्षमता बढ़ाने से संबंधित प्रस्तावित तीनों ही परियोजनाओं के एक दूसरे से 4 कि.मी. की परिधि में स्थित होने एवं सभी के बफर क्षेत्र ओवरलैपिंग होने के कारण सभी के लिये संयुक्त रूप से वन्य प्राणी संरक्षण व प्रबंधन योजना तैयार की जाकर महाप्रबंधक, (खादान), हिन्डालको इन्डस्ट्रीज के पत्र क्रमांक HIL/SAM/300/2013 दिनाक 2.03.2013 द्वारा प्रस्तुत किया गया है जिसका समग्र रूप से परीक्षण किया गया। प्रस्तावित परियोजनाओं के कोर क्षेत्र से 10 कि.मी. की परिधि में आने वाले ओवरलैपिंग बफर क्षेत्र में वन्य प्राणियों एवं उपलब्ध वनस्पतियों का सर्वे किया जाकर पाये गये स्पेसिज को परियोजना प्रस्ताव में अनेक्स्न-4 के में उल्लेखित किया गया है।
 - उल्लेखित सूचि में वन्य प्राणी (संरक्षण) अधिनियम के शेड्यूल 1 के वन्य प्राणी नहीं पाये गये हैं। परंतु इस कार्यालय द्वारा वन संरक्षक (वन्य प्राणी), सरगुजा से विगत दस वर्षों में वन्य प्राणियों द्वारा की गई क्षति की जानकारी चाही गयी। वन संरक्षक ने अपने पत्र क्रमांक 749 दिनांक 24.05.2012 से यह जानकारी उपलब्ध कराया है कि उक्त क्षेत्र में हाथियों का वर्ष 2005 में दो बार, वर्ष 2006 में आठ बार, 2007 में एक बार, 2008 में दो बार, 2009 में सात बार आना जाना हुआ है। इसी प्रकार भालुओं के द्वारा वर्ष 2007-08 में आठ, वर्ष 2008-09 में पाँच, वर्ष 2009-10 में छैं: एवं 2010-11 में 4 जनहानि व जनघायल के प्रकरण तथा वर्ष 2007–08 तथा 2008–09 में तेंदुआ द्वारा पशु हानि के दो प्रकरण तथा लकड़बग्घे के कारण एक प्रकरण दर्ज किये गये हैं। इस प्रकार वन्य प्राणी (संरक्षण) अधिनियम के शेंड्यूल १ के उपरोक्त उल्लेखित वन्य प्राणियों के परियोजना क्षेत्र में आने जाने के प्रमाण पाये गये है। प्रस्तावित क्षेत्र से 6 से 7 कि.मी.की दूरी पर झारखंड राज्य में भेड़िया अभ्यारण्य भी स्थापित है। अतः संस्था द्वारा दस वर्षों के लिये वन्य प्राणी संरक्षण व प्रबंध योजना श्री पी. के. सेन पूर्व वन्य प्राणी अभिरक्षक, झारखंड से तैयार कराया जाकर प्रस्तुत किया गया है। जिसका समग्र व विस्तृत अध्ययन किया गया। प्रबंधन योजना में प्रस्तावित प्रबंधन संबंधित मुख्य गतिविधियों का विवरण निम्नानुसार है। योजना में वन्य प्राणियों के लिये जलग्रहण क्षेत्र विकास, रहवास-विकास, पेयजल व्यवस्था, विभाग के क्षेत्रीय अमले के सहयोग से क्षेत्र में पेट्रोलिंग व मॉनिटरिंग, अग्नि सुरक्षा, ईको विकास की गतिविधियाँ, रथानीय ग्रामीणों के लिये आजीविका सुजन, टीकाकरण, जनजागृति कार्यकम जैसी गृतिविधियों का

3.

समावेश करते हुये 04 वर्षों के लिए कीए काल करते गाठ प्रत्यानित की गयी है। जिसका क्रियान्वयन वन विभाग के द्वारा किया जायेगा। प्रत्यान गणा भी किया का विवरण निस्तानुसार है -

51.	Works to be done	Consideration of the Constant			As. In lak	ha)	Remarks
la-		1 Year	Year	Year		Total	Haz I
1	Plantation including soil and moisture Conservation works as per norms of forest department surrounding the lease hold	5.00	5.00	4.00	Year 5.00	20.00	
2	Silvicultural Operation on degraded forest Land and cut back in rooted waste	2.00	2.00	2.00	2.00	8.00	*
3	Habitat Management Eradication of unwanted species in buffer Zone area, Fire Protection work including wages for fire watchman, Creation of Fire line etc. surrounding lease hold and in buffer area.	2.50	2.50	2.50	2.50	10.00	
4	Monitoring - One Staff of forest department to monitor movement of wild life, encroachment, illicit cutting, poaching, fire etc. including Salary of 1 staff	3.00	3.00	3.00	3.00	12.00	
5	Construction of water holes, their maintenance and patrolling (One per Annum)	10.00	10.00	10.00	10.00	40.00	
6	Eco-development activities like poultry, piggery, bee keeping etc.	5.00	5.00	5.00	5.00	20.00	
7	Vocational Training to weaker section, females, old persons and minors of the surrounding villages in three centre in the buffer Zone of the mining lease @ 50000/- per centre.	3.00	3.00	3.00	3.00	12.00	<u>x</u>
3	Veterinary camp for immunization- of Cattle with the help of block veterinary sataff.	-2 .00	2.00	2.00	2.00	8.00	
9	Awareness Programme including Signages, distribution of Pamphlets- related to wild life conservation etc.	2.50	2.50	2.50	2.50	10.00	Z .
10	Provision for conservation of Biodiversity among flora and fauna of the area & Preparation of Biodiversity register	20.00	0.00	0.00	0.00	20.00	The amount is to be deposited in the account of Biodiversity Board as this work is to be done by Biodiversity management
			4				committees (BMC's)
	Total	55.00	35.00	35.00	35.00	160.00	

का प्रति का स्वति के विभाग में एकमुश्त जमा की गई शशि से बन्यप्राणी सरक्षण योजना कियान्वित करेगा।

7 अनुमांदित वन्यपाणा राउद्याण योजना की एक प्रति सलग्न प्रेषित है। कृपया वन्यप्राणी संरक्षण योजना में प्रावधानित राशि रू. 160.00 लाख एकमुश्त जमा कराने हेतु परियोजना प्रस्तावको को आदेशित करने का कष्ट करें।

संलग्नः-उपरोक्तानुसार।

(रामप्रकाश) वर्ग ११।3

प्रधान मुख्य वन संरक्षक (वन्यप्राणी)

छत्तीसगढ़, रायपुर

रायपुर दिनांक 07/10/2013

पृष्ठां क्रमांक/व.प्रा./प्रबंध-12/13/ 2968.

प्रतिलिपि:-

- प्रमुख सचिव, छत्तीसगढ़ शासन, वन विभाग, महानदी मंत्रालय भवन, नया रायपुर की ओर मय योजना की प्रति सहित सूचनार्थ प्रेषित।
- श्री एम., के. नायंक, जी. एम. माइन्स हिन्डालको ईन्डस्ट्रीज लिमिटेड, सामरी बॉक्साईट माईन्स, पोस्ट-कुसमी, जिला-सरगुजा, छत्तीसगढ़ की ओर मय योजना की प्रति सहित सूचनार्थ प्रेषित।

प्रधान मुख्य वन संरक्षक (वन्यप्राणी) वर्ग प्रभा कत्तीसगढ़, रायपुर

9

SAMRI BAUXITE MINE

Annexue - B

Annexure-6 Details of Flora and Fauna समावेश करते हुये 04 वर्षों के लिए कीए लिए करण करणाएं अवधानित की गयी है। जिसका क्रियान्वयन वन विभाग के द्वारा किया जायेगा। प्रस्तान मुखा भी किया का विवरण निस्तानुसार है -

Sr.	Works to be done	€.6		ii γυ _σ ιες (as. In lak	ha)	Remarks	
10-		1 Year	Year	Year		Total	142	
1	Plantation including soil and moisture Conservation works as per norms of forest department surrounding the lease hold	5.00	5:00	4:00	5.00	20.00		
2	Silvicultural Operation on degraded forest Land and cut back in rooted waste	2.00	2.00	2.00	2.00	8.00	1	1808
3	Habitat Management Eradication of unwanted species in buffer Zone area, Fire Protection work including wages for fire watchman, Creation of Fire line etc. surrounding lease hold and in buffer area.	2.50	2.50	2.50	2.50	10.00	n n	
4	Monitoring - One Staff of forest department to monitor movement of wild life, encroachment, illicit cutting, poaching, fire etc. including Salary of 1 staff	3.00	3.00	3.00	3.00	12.00		
5	Construction of water holes, their maintenance and patrolling (One per Annum)	10.00	10.00	10.00	10.00	40.00		
6	Eco-development activities like poultry, piggery, bee keeping etc.	5.00	5.00	5.00	5.00	20.00		
7	Vocational Training to weaker section, females, old persons and minors of the surrounding villages in three centre in the buffer Zone of the mining lease @ 50000/- per centre.	3.00	3.00	3.00	3.00	12.00	3	2
3	Veterinary camp for immunization- of Cattle with the help of block veterinary sataff.	-2 .00	2.00	2.00	2.00	8.00	-	
9	Awareness Programme including Signages, distribution of Pamphlets- related to wild life conservation etc.	2.50	2.50	2.50	2.50	10.00		1000
10	Provision for conservation of Biodiversity among flora and fauna of the area & Preparation of Biodiversity register	20.00	0.00	0.00	0.00	20.00	The amount is to be deposited in the account of Biodiversity Board as this work is to be done by Biodiversity management committees (BMC's)	100
		55.00	35.00	35.00	35.00	160.00	(DIVICS)	1

ANNEXURE-6 DETAILS OF FLORA & FAUNA

TABLE-1 DETAILS OF DOMINANT PLANT SPECIES IN MINE LEASE AREA (CORE ZONE)

Name of the plant Species	Local Name	Family
Butea monosperma	Palas	Fabaceae
Acacia Arabica	Babul	Mimosaceae
Leucena leucophloe	Sabubal	Mimosacaae
Mangifera indica	Aam	Anacardiaceae
Citrus lemon	Nimbu	Rutaceae
Emblica officinalis	Amla	Euphorbiaceae
Ficus hispida	Jungli anjir	Moraceae
Spondias cythera	Kathjamun	Myrtaceae
Terminalia catapa	Badam	Combretaceae
Apluda mutica	Grass	Poaceae
Chloris dolichosta	Grass	Poaceae
Dichanthium annulatum	Grass	Poaceae
Inpurta cylendrica	Grass	Poaceae
Themeda-quadrivalvis	Grass	Poaceae
Aristida adscensionsis	Grass	Poaceae
Eragrostis biferia	Grass	Poaceae
Fragrostis tenella	Grass	Poaceae
Setarla glauca	Grass	Cyperaceae
Thysanolaena maxima	Grass	Graminae
Parthenium hysterophorus	Congress grass	Compositae
Carsia tota	4.20	Caesalpinaceae
Delanix regia	Kachnar	Caesalpinaceae
Dalbergia Sissoo	Sisoo	Caesalpinaceae,

TABLE-2 FLORA/VEGETATION IN STUDY AREA (BUFFER ZONE)

Sr. No.	Technical Name	Family	Life Form
I. Agricu	iltural Crops		
1	Hordium vulgare	Poaceae	Hemicryptophyte
2	Sorghum vulgare	Poaceae	Hemicryptophyte
3	Triticum vulgare	Poaceae	Hemicryptophyte
4	Zea mays	Poaceae	Hemicryptophyte
15	Oryza sativa	Poaceae	Hemicryptophyte
(i	Pennisetum typhoideum	Poaceae	Hemicryptophyte
II. Comr	nercial Crops (including Veget	ables)	
1	Abelomoschus indicus	Malvaceae	Therophyte
В	Allium cepa	Liliaceae	Geophyte
9	Allium sativum	Liliaceae	Geophyte
10	Annona squamosa	Annonaceae	Phanerophyte
1.1	Arachis hypogia	Fabaceae	Geophyte
1.2	Catharanthes pusillus	Compositae	Therophyte
13	Cicer arietinum	Fabaceae	Hemicryptophyte
1.4	Citrus lemon	Ruataceae	Therophyte
15	Colacasia esculenta	Areaceae	Geophyte
16	Coreandrum sativum	Umbelliferae	Hemicryptophyte
1.7	Daucus carota	Umbelliferae	Geophyte
18	Lycopersicum esculentus	Solanaceae	Therophyte
1')	Mangifera indica	Anacardiaceae	Phanerophyte
20	Memordia charantia	Cucurbitaceae	Therophyte
21	Pisum sativum	Fabaceae	Therophyte
2.2	Psidium guava	Myrtaceae	Phanerophyte
23	Solanum tuberosum	Solanaceae	Geophyte
24	Litchi chinensis	Sapindaceae	Phanerophyte
III. Plani	tations		***************************************
25	Bauhinia cormbosa	Caesalpinaceae —	Phanerophyte
26	Acacia nilotica	Mimosaceae	Phanerophyte
27	Albizia lebbeck	Mimosaceae	Phanerophyte
28	Albizia odorattissima	Mimosaceae	Phanerophyte
29	Albizia procera	Mimosaceae	Phanerophyte

1	Sr. 1		I Name			
1	31	Azadirachta indica	2	Family		120
-	32	Bauhinia variegati	9	Meliaceae		Life Form
	33	Bauhinia purpuria		Caesalpinaceae		Phanerophyte Phanerophyte
	34	Bambusa arundan	aceae	Caesalpinaceae		Phanerophyte
	35	Dutea monosperm	8	Poaceae		Phanerophyte
	36	Butea frondosa		Caesalpinaceae		Phanerophyte
	37	Eucalyptus sp		Caesalpinaceae Myrtaceae		Phanerophyte
	38	Delonix regia		Caesalpinaceae		Phanerophyte
I	V. Na	Leucena leucophloe tural Vegetation/Fore	9	Caesalpinaceae		Phanerophyte
	39	Abrus precatorius	st Type	т -осодірінаседе		Phanerophyte
-	40	Abutilon indicum		Fabaceae		
_	41	Acacia Arabica		Malvaceae		Therophyte
-	42	Acacia auriculiformi		Mimosaceae		Phanerophyte
-	43	Acacia catechu	5	Mimosaceae		Phanerophyte
-	44	Acacia intinsia		Mimosaceae		Phanerophyte
-	45	Acacia fernacea		Mimosaceae		Phanerophyte
-	46	Acacia leucophloe		Mimosaceae		Phaneophyte
_	47	Acalypha lanceolata		Mimosaceae		Phanerophyte
	48	Acanthospermum his	Didum	Euphorbiaceae	1	hanerophyte
	49 50	- Charry all thes aspers		Compositae	7	herophyte
-	51	Agathoda vasica		Amaranthaceae	7	herophyte
	52	Adina cordifolia		Acanthaceae	7	herophyte
	53	Aegle marmelos		Rubiaceae	PI	herophyte
	4	Aerva lanata		Rutaceae	PH	nanerophyte nanerophyte
_	5	Ageratum conyzoides	1	Compositae	Pt	anerophyte
5		Ailanthes excela		Compositae	Th	erophyte
5	-	Alangium salivus		imaroubaceae langiceae	Ph	anerophyte
58	8	Albizia odoratissima Albizia procera		aesalpinaceae	Ph	anerophyte
.59	9	Alstonia scholaris	10	aesalpinaceae	Pha	anerophyte
60)	Alternanthera sessilis	A	pocyanaceae	Pha	nerophyte
61		Alysicarpus hamosus	Ai	maranthaceae	Pha	nerophyte
62	1	Anogeissus latifolia	Fa	baceae	The	rentyte
63		Anogeissus serica	Co	ombretaceae	The	rophyte
64		Argemone mexicana	Co	mbretaceae	Pha	nerophyte
65		Azadirachta indica	Pa	pevaraceae	Pha	nerophyte
66		Barleria prionoites	Me	iaceae	Phai	nerophyte
67		Bidens biternata	Acc	inthaceae	Phar	nerophyte
68		Blepharis asperima	Cor	mpositae	Iner	ophyte
69	1	piepnaris madarasnatas	Aca	nthaceae	Iner	ophyte
70	4.	oruniea lacera	- ACC	nthaceae	Phan	erophyte
71	t	oerheavia chinensis	Con	npositae	There	ophyte
73		oerneavia diffues	Nyc	ataginaceae	Thor	phyte
74	16	ombax ceiba	Nyc	taginaceae	Thora	pphyte
'5	B	orreria hispida	Bon	bacaceae	Phane	phyte Prophyte
6	B	orreria stricta	RUDI	aceae	Thero	phyte
7	D.	oswellia serrata	Rubi	aceae	Thero	phyte
8	D.	assica camprestris	Crus	eraceae ferae	Phane	rophyte
9	B.	idelia retusa	Funh	orbiaceae	Therog	hyte
)	Co	idelia superba	Funh	orbiaceae orbiaceae	Phaner	ophyte
	Ca	esalpina pulcherima	Caes	alpinaceae	Phaner	ophyte
)	Ca	lotropis procera	Asclin	iadaceae	Phaner	ophyte
	Car	nthium diddynum oparis aphylla	Rubia	Ceae	Phanen	ophyte
	Car	paris deciduas	Cappa	ridaceae	Phaner	Ophyte
	Car	issa carandus	Cappa	ridaceae	Theroph	ryte
	Car	issa spinarium	Apocy	anaceae	Phanero	phyte
	Cas	earia graveolens	Apocya	naceae	Phanero	phyte
	LdS:	sia absus	Samyo	laceae	Phanero	phyte
	Cass	ila absus	Caesal	Dinaceae	Phanero	phyte
	Cass	ia auriculata	Caesali	Dinaceae	Phanero	phyte
	Cass	ia occidentalie	Caesalr	Dinaceae	I heroph	vte
	Cass	la tora	Caesair	inaceae	Therophy	/te
	Cesti	rum diurnum	Caesalp	inaceae	Therophy	rte
	Cestr	um noctrunum	Rubiace	ae	Phanerop Theophyt	hyte
		77.5 K-E	Rubiace		Heonbyt	0

Sr. No.	Technical Name	Family	Life Form
95	Chloris varigata	Poaceae	Therophyte
96	Cissus quadrangularis	Vitaceae	Therophyte
97	Citrus limon	Rutaceae	Phanerophyte
98	Cleome gynandra	Capparidaceae	Therophyte
99	Combretum ovalifolium	Rubiaceae	Phanerophyte
100	Cordia myxa	Rubiaceae	Phanerophyte
101	Crotalaria medicagenia	Fabaceae	Therophyte
102	Croton bonplandinum	Amaryllidaceae	Therophyte
103	Cuscuta reflexa	Cuscutaceae	Epiphyte
104	Datura fastulosa	Solanaceae	Therophyte
105	Datura metal	Solanaceae	Therophyte
106	Desmodium triflorum	Asclepiadaceae	Therophyte
107	Diospyros melanoxylon	Lythraceae	Phanerophyte
108	Diospyros Montana	Lythraceae	Phanerophyte
109	Echinops echinatus	Compositae	Therophyte
110	Eclipta prostrate	Compositae	Hemicryptophyte
111	Emblica officinale	Euphorbiaceae	Phanerophyte
112	Emilia lajerium	Compositae	Hemicryptophyte
113	Erythrina indica	Papillionaceae	Phanerophyte
114	Euphorbia geniculata	Euphorbiaceae	Therophyte
115	Euphorbia hirta	Euphorbiaceae *	Therophyte
116	Euphorbia hyperocifolia	Euphorbiaceae	Therophyte
117	Euphorbla neruri	Euphorbiaceae	Therophyte
118	Euphorbia nivula	Euphorbiaceae	Therophyte
119	Euphorbia piluliflora	Euphorbiaceae	Hemicryptophyte
120	Euphorbia tricauli	Euphorbiaceae	Hemicryptophyte
121	Evolvulus alsinoides	Convolvulaceae	Therophyte
122	Evolvulus numalaris	Convolvulaceae	Therophyte
123	Feronia elephantum	Rutaceae	Phanerophyte
124	Ficus benghalensis	Moraceae	Phanerophyte
125	Ficus carica	Moraceae	Phanerophyte
126	Ficus glomerata	Moraceae	Phanerophyte:
127	Ficus hispida	Moraceae	Phanerophyte
128	Ficus racemosus	Moraceae	Phanerophyte
129	Ficus relisiosa	Moraceae	Phanerophyte
130	Ficvus gibbosa	Moraceae	Phanerophyte
131	Gardenia latifolia	Rubiaceae	Phanerophyte
1.32	Gardenia lucida	Rubiaceae	Phanerophyte
133	Garuga pinnata	Burseraceae	Phanerophyte
134	Glossocardia bosvellia	Compositae	Hemicryptophyte
135	Gmelina arborea	Rubiaceae	Phanerophyte
136	Gomphrena globosa	Amaranthaceae	Therophyte
137	Gossypium herbaceum	Malvaceae	Therophyte
138	Grewia abutifolia	Tiliaceae	Phanerophyte
139	Grewla salivifolia	Tiliaceae	Phanerophyte
140	Grewia subinaqualis	Tiliaceae	Phanerophyte
141	Gynandropis gynandra	Capparidaceae	Hemicryptophyte
142	Helictris isora	Rubiaceae	Phanerophyte
143	Heliotropium indicum	Rubiaceae	Hemicryptophyte
144	Helitropium ovalifolium	Rubiaceae	Hemicryptophyte
145	Hemidesmus indicus	Asclepiadaceae	Phanerophyte
146	Hibsicus caesus	Malvaceae	Hemicryptophyte
147	Holarrhena antidycenterica	Asclepiadaceae	Phanerophyte
148	Holostemma annularia	Aslepiadaceae	Phanerophyte
149	Hygrophylla auriculata	Acanthaceae	Hemicryptophyte
150	Hyptis suavalens	Labiatae	Therophyte
151	Ichnocarpus frutens	Poaceae	Hemicryptophyte
152	Impatiens balasamania	Balsaminaceae	Therophyte
153	Indigofera hirsute	Caesalpinaceae	Therophyte
154	Indigofera limnacea	Caesalpinaceae	Therophyte
155	Indigofera tinctoria	Caesalpinaceae	Therophyte
156	Ipomea aquatica	Convolvulaceae	Hydrophyte
157	Ipomea coccinea	Convolvulaceae	Therophyte
158	Ipomea tuba	Convolvulaceae	Hemicryptophyte
159	Ixora arborea	Rubiaceae	Phanerophyte
160	Ixora parviflora	Rubiaceae	Phanerophyte

or. No.	Technical Name	Family	Life Form
161	Ixora singapuriens	Rubiaceae	Phanerophyte
162	Jasmimum arborens	Oleaceae	Phanerophyte
163	Jatropha gossypifolia	Euphorbiaceae	Therophyte
164	Jussiaea suffraticosa	Onagraceae	Hydrophyte
165	Justia diffusa	Acanthaceae	Therophyte
166	Justicia diffusa	Acanthaceae	Therophyte
167	Lactuca punctata	Compositae	Therophyte
168	Lannea coramandalica -	Anacardiaceae	Phanerophyte
169 .	Latinia di antici	Anacardiaceae	Phanerophyte
170	Lannea procumbens	Anacardiaceae	Therophyte
171	Lantana camara	Verbinacaee	Phanerophyte
172	Lawsonia inermis	Lythraceae	Phanerophyte
173	Lepidogathis cristata	Acanthaceae	Therophyte-
174	Leptodenia_reticulate	Asclepiadaceae	Phanerophyte
175	Leucas aspera	Labiatae	Therophyte
176	Leucas longifolia	Labiatae	Therophyte
177	Leucas longifolia	Labiatae	Therophyte
178	Leucena leucophloe	Caesalpinaceae	Phanerophyte
179	Linderbergia indica	Scrophulariaceae	Therophyte
180	Lindernbergia ciliate	Scrophulariaceae	Therophyte
181	Lophophora tridinatus	Scrophulariaceae	Geophyte
182	Luffa acutangularia	Cucurbitaceae	Therophyte
183	Lycopersicum esculentus	Solanaceae	Therophyte
184	Madhuca latifolia	Sapotaceae	Phanerophyte
185	Mallotus philippinus	Euphorbiaceae	Phanerophyte
186	Malvastrum coramandalicum	Malvaceae	Therophyte
187	Mangifera indica	Anacardiaceae	Phanerophyte
188	Marselia quadrifolia	Marseliaceae	Phanerophyte
189	Melia azadirachta	Meliaceae	Phanerophyte
190	Memordica diocea	Cucurbitaceae	Therophyte
191	Merremia emerginata	Convolvulaceae	Therophyte
192	Michaelia champaca	Annonaceae	Phanerophyte
193	Millingtonia hartensis	Bignoniaceae	Phanerophyte ::
194	Mimosa hamata	Mimosaceae	Therophyte
195	Mitragyna parviflora	Rubiaceae	Phanerophyte
196	Mollugo cerviana	Aizoaceae	Therophyte
197	Mollugo hirta	Aizoaceae	Therophyte
198	Moringa oleifera	Moringaceae	Phanerophyte
199	Morus alba	Moraceae	Phanerophyte
200	Mucuna prurita	Papillionaceae	Hemicryptophyte
201	Murraya exotica	Rutaceae	Phanerophyte
202	Murraya koenigii	Rutaceae	Phanerophyte
203	Musa paradisica	Musaceae	Therophyte
204	Nymphia sp	Magnoliaceae	Hydrophyte
205	Ocimum americanum	Labiatae	Therophyte
206	Ocimum basillum	Labiatae	Therophyte
207	Ocimum_canum	Labiatae	Therophyte
208	Ocimum sanctum	Labiatae	Therophyte
209	Oldenlandia umbellate	Convolvulaceae	Therophyte
210	Oldenlandiua corymbosa	Rubiaceae	Therophyte
211	Oogelnia oojensis	Papillionaceae	Phanerophyte
212	Opuntia dillinii	Opuntiaceae	Therophyte
213	Opuntia elator	Cacataceae	Therophyteq
214	Oxalis corniculata	Oxalidaceae	Therophyte
215	Panicum milliria	Poaceae	Hemicryptophyte
216	Panicum notatum	Poaceae	Hemicryptophyte
217	Papaver somniferum	Papaveraceae	Hemicryptophyte
	Parkinsonia aculata	Mimosaceae	Phanerophyte
218	Parthenium hysterophorus	Compositae	Therophyte
218 219			1 Lineau and contract of the
218 219 220	Paspalum strobilanthus	Passifloraceae	Hemicryptophyte
218 219 220 221	Paspalum strobilanthus Passiflora foetida	Passifloraceae	Phanerophyte
218 219 220 221 222	Paspalum strobilanthus Passiflora foetida Pavonia zeylanica	Passifloraceae Malvaceae	Phanerophyte Phanerophyte
218 219 220 221 222 223	Paspalum strobilanthus Passiflora foetida Pavonia zeylanica Peltophorum ferrusinum	Passifloraceae Malvaceae Caesalpinaceae	Phanerophyte Phanerophyte Phanerophyte
218 219 220 221 222	Paspalum strobilanthus Passiflora foetida Pavonia zeylanica	Passifloraceae Malvaceae	Phanerophyte Phanerophyte

Sr. No.	Technical Name	Family	Life Form
227	Phyllanthes nirurii	Euphorbiaceae	Therophyte
228	Phyllanthes reticulates	Euphorbiaceae	Therophyte
229	Physalis minima	Solanaceae	Therophyte
230	Pithocolobium dulce	Mimosaceae	Phanerophyte
231	Polyalthia longifolia	Annonaceae	Phanerophyte
232	Polygala ererptera	Polygalaceae	Therophyte
233	Pongamia pinnata	Fabaceae	Phanerophyte
234	Portulaca oleracea	Portulaccaceae	Therophyte
235	Psidium guava	Myrtaceae	Phanerophyte
236	Punica granulatum	Puniaceae	Therophyte
237	Randia dumatorum	Rubiaceae	Phanerophyte
238	Rosa indica	Rosaceae	Therophyte
239	Rosa machata	Rosaceae	Therophyte
240	Saccharum munja	Poaceae	Hemicryptophyte
241	Saccharum officinarum	Poaceae	Therophyte
242	Salmalia malabarica	Salmaliaceae	Phanerophyte
243	Sapindus emerginatus	Sapindaceae	Phanerophyte
244	Schleichera trijuga	Combretaceae	Phanerophyte
245	Scherebera sweitenoides	Sapindaceae	Phanerophyte
246	Schleichera oleosa	Sapindaceae	Phanerophyte
247	Sesamum indicum	Pedaliaceae .	Hemicryptophyte
248	Shorea robusta	Dipterocarpaceae	Phanerophyte
249 250	Sida orientalis	Malvaceae '	Phanerophyte
	Sida vernanifolia	Marvaccac	Hemicryptophyte
251 252	Salanum nigrum	Solanaceae	Therophyte
253	Solanum xanthocarpum	Solanaceae	Therophyte
	Sterculia villosa	Tiliaceae	Therophyte
254 255	Stereospermum chelinoides Sygyglum cumini	Bignoniaceae	Phanerophyte
256	Tamarindus indica	Myrtaceae	Phanerophyte
257	Tecomella undulate	Caesalpinaceae	Phanerophyte
258		Bignoniaceae Verbinaceae	Therophyte
259	Tectona grandis	Fabaceae	Phanreophyte
260	Tephrosia purpuria	Combretaceae	Therophyte Phanerophyte
261	Terminalia chebula	Combretaceae	Phanerophyte
262	Terminalia tomentosa	Combretaceae	Phanerophyte
263	Tinospora cordifolia	Rhamnaceae	Phanerophyte Therophyte
264	Tragus biflorus	Poaceae	Hemicryptophyte
265	Tribulus terrestris	Zygophyllaceae	Therophyte
266	Tridax procumbens	Compositae	Therophyte
267	Triumferta pilosa	Tiliaceae	Merophyte
268	Vernonia cinera	Compositae	Therophyte
269	Vicoa indica	Compositae	Phanerophyte
270	Vitex Negundo	Verbinaceae	Phanerophyte
271	Vitex negungo	Verbinaceae	Therophyte
272	Vitis vermifera	Vitaceae	Therophyte
273	Vivevera zizanoides	Poaceae	Therophyte
274	Wrightia tomentosa	Apocyanaceae	Phanerophyte
275	Xanthium strumariumk	Compositae	Therophyte
276	Yucca gloriosa	Agavaceae	Therophyte
277	Zizyphus jujube	Rhamnaceae	Phanerophyte
278	Zizyphus mauritiana	Rhamanaceae	Phanrophyte
Grassla		1 Marina Residue	The state of the s
279	Apluda mutica	Poaceae	Hemicryptophyte
280	Chloris dolichosta	Poaceae	Hemicryptophyte
281	Cyanodactylon sp	Poaceae	Geophyte
282	Dichanthium annulatum	Poaceae	Hemicryptophyte
283	Inpurta cylendrica	Poaceae	Hemicryptophyte
284	Sachharum spontanseum	Poaceae	Hemicryptophyte
285	Themeda quadrivalvis	Poaceae	Hemicryprophyte
286	Aristida adscensionsis	Poaceae	Hemicryptophyte
287	Cenchrus ciliaris	Poaceae	Therophyte
288	Cenchrus setifgera	Poaceae	Therophyte
289	Cymbopogon jwarancusa	Cyperaceae	Hemicrptophyte
290	Cyperus aristatus	Cyperaceae	Therophyte
	THE PARTY OF THE P	I DOI GLEGE	I I I I I I I I I I I I I I I I I I I

Sr. No.	Technical Name	F	
292	Dactylectinium annualatum	Family	Life Form
293	Digetaria bicornis	Poaceae	Therophyte
294	Digetaria Segetaria	Poaceae	Hemicryptophyte
295	Eragrostis biferia	Poaceae	Homico
296	Erzosostia billeria	Poaceae	Hemicryptophyte
297	Eragrostis tenella	Poaceae	Therophyte
298	Ischaemum rugosum	Poaceae	Therophyte
-	Setaria glauca	Cyperaceae	Hemicryptophyte
299	Eulaliopsis binata	dianopsis binata	Hemicryptophyte
300	Thysanolaena maxima	Graminae	Hemicryptophyte
	Endangered plants	Graminae	Lami-
		study period and also Survey of India (Red Plants)	species observed during from records of Botanica data of Books of India

TABLE-3 FAUNA AND THEIR CONSERVATION STATUS FROM MINE LEASE AREA (CORE ZONE)

Technical Name	TATION STATUS FROM MINE	ZOILL)
	English Name/ Local Name	Wild Life Protection Act
Aves	Tome	(1972) Status
Phlacrocorax niger	Little cormorant	
Nycticorax nycticorax	Night heron	Sch-IV
Ardeola grayii grayii	+addy bird	Sch-I∀
Bubulcus ibis coromandus	Lattie egret	Sch-IV
Eudynamys scolopacea	Indian koel	Sch-IV
Meops philippinus philippinus		Sch-IV
Dinopium benghalense tehminae	Bluetailed bee-eater	Sch-IV
	Malabar golden backed	Sch-IV
Acridotheres tristis tristis	Woodpecker	
Nectarinia minima	Common myna	Sch-IV
Passer domesticus indicus	Small sunbird	Sch-IV
Butterflies	Indian house sparrow	Sch-IV
Hypolimnas bolina Lin.	Control of the Contro	
Euploea core Cramer	Great augfly	
Neptis hylas Moore	Gommon crow	-
Eurema hecabe Lin.	Common sailor	
Parantica aglea Stoll.	Common grass yellow	
Mammals	Glassy tiger	
Funambulus palmarum	1	
Sus sucrofa	Squirre!	Sch-IV
Herpestes edwardii	Wild pig	Sch-III
/ulpus benghalensis	Common mongoose	Sch-IV
dystrix indica	Wild fox	Sch-II
	Porcupine	Sch-IV

FAUNA AND THEIR CONSERVATION STATUS IN STUDY AREA (BUFFER ZONE)

Technical Name	English Name/Local Name		
Aves	- Cocal Name	Wild Life Protection Ac	
		(1972)	
Phlacrocorax niger	Little cormorant		
Ardea purpurea manilensis	Eastern purple heron	Sch-IV	
Nycticorax nycticorax	Night heron	Sch-IV	
Ardeola grayii grayii	Paddy bird	Sch-IV	
Dupetor flavicollis		Sch-IV	
Ardea alba modesta	Black bittern	Sch-IV	
Bubulcus ibis coromandus	Large egret	Sch-IV	
Milvus migrans govinda	Cattle egret		
Haliastur indus indus	Common pariah kite	Sch-IV	
Vanally a ladi	Brahminy kite	Sch-IV	
Vanellus indicus indicus	Redwattled lapwing	Sch-IV	
Tringa hypoleucos	Common sandpiper	Sch-IV	
Gelochelidon nilotica nilotica	Gullbilled tern	Sch-IV	
udynamys scolopacea	Indian koel	Sch-IV	
talcyon smyrnensis fusca		Sch-IV	
leops philippinus philippinus	Indian white breasted Kingfischer	Sch-IV	
Printed	Bluetailed bee-eater	Sch-IV	

Technical Name	English Name/Local Name	Wild Life Protection Act (1972)		
Coracias benghalensis indica	Southern Indian Roller	Sch-IV		
Dinopium benghalense tehminae	Malabar golden backed Woodpecker	Sch-IV		
Acridotheres tristis tristis	Common myna	Sch-IV		
Corvus splendens protegatus	Ceylon house crow	Sch-IV		
Nectarinia minima	Small sunbird	Sch-IV		
Nectarenia, zeylonica sola	Indian purple rumped sunbird	Sch-IV		
Arachnothera longirostris	Little spinder hunter	Sch-IV		
longirostris		36.17		
Passer domesticus indicus	Indian house sparrow	Sch-IV		
Copsychus saularis ceyonensis	Southern magnie-robin	Sch-IV		
Orthotomus sutorius	Tailor bird auzurata	Sch-IV		
Pavocristatus	Peacock	Part-III of Sch-I		
Amphibians		ruicin or sen-i		
Rana tigriana	Common frog	Sch-IV		
Buto melanosticus	Toad	Sch-IV		
Reptiles	1000	SCII-IV		
Calotes versicolor	Lizard	C-b IV		
Calores versicolor	Common-garden lizard	Sch-IV		
Chamaleon zeylanicus	Indian chamaeleon	Sch-IV		
Lycodon spp.	Wolf snake	Sch-II		
Boiga spp.		Sch-III		
	Cat snake	Sch-III		
Bangarus spp.	Krait	Sch-II		
Naja naja	Indian copra	Sch-III		
Vipera spp.	Russels viper	Sch-III .		
Phyton sp	Python sp	Sch-I		
Butterflies				
Pachliopta hector Lin.	Crimson rose	-		
Papilio demoleus Lin.	Lime butterfly			
Graphium agamemnon Lin.	Tailed jay			
Junoria almana Lin.	Peacock pansy	-		
Hypolimnas bolina Lin.	Great egofiv			
Euploea core Cramer	Common crow	-		
Neptis hylas Moore	Common sailor	-		
Eurema hecabe Lin.	Common grass yellow	-		
Catopsilia sp.	Emigrant			
Mammals				
Rattus sp.	Rat ·	Sch-IV		
Lepus nigricollis	Hare	Sch-IV		
Canis auries	Jackal	Sch-III		
Presbytis entellus	Langur	Sch-II		
Presbytis phayrei	Monkey	Sch-I		
Funambulus spp.	Squirrel			
unambulus palmarum	Squirrel	Sch-IV		
Sus sucrofa —		Sch-IV		
	Wild pig	Sch-III		
Rattus norvegicus	Field mouse	Sch-V		
Rattus rattus	House rat	Sch-V		
thinolopus spp.	Bat	Sch-V -		
lipposiderus spp.	Bat	Sch-V		
Herpestes edwardii	Common mongoose	Sch-IV		
Bandicota indica	Bandicoot	Sch-V		
Bandicota bengalensis	Bandicoot	Sch-V		
/ulpus benghalensis	Addid force	Sch-III		
felsurus ursinus	Wild fox	SC11-111		
iciadi da di alifua	Bear	Sch-III		
AND		Sch-III		
lystrix indica	Bear	Sch-III Sch-IV		
lystrix indica xis axis 🕡	Bear Porcupine	Sch-III Sch-IV Sch-III		
lystrix indica xis axis ↓ `anis lupaspallipės	Bear Porcupine Spotted deer Indian wolf	Sch-III Sch-IV Sch-III Part-I of Sch-I		
lystrix indica xis axis ↓ `anis lupaspallipes fellivora capensis	Bear Porcupine Spotted deer Indian wolf Indian Ratel	Sch-III Sch-IV Sch-III Part-I of Sch-I Part-I of Sch-I		
lystrix indica xis axis	Bear Porcupine Spotted deer Indian wolf Indian Ratel Indian Elephant	Sch-III Sch-IV Sch-III Part-I of Sch-I Part-I of Sch-I Part-I of Sch-I		
lystrix indica xis axis • anis lupaspallipes fellivora capensis lephas maximas elis chaus	Bear Porcupine Spotted deer Indian wolf Indian Ratel Indian Elephant Jungle cat	Sch-III Sch-IV Sch-III Part-I of Sch-I Part-I of Sch-I Part-I of Sch-I Part-II of Sch-I		
lystrix indica xis axis	Bear Porcupine Spotted deer Indian wolf Indian Ratel Indian Elephant	Sch-III Sch-IV Sch-III Part-I of Sch-I Part-I of Sch-I Part-I of Sch-I		

HINDALCO INDUSTRIES LIMITED

Samri Bauxite Mines

Self Help Group (SHGs), Samri

No. of SHGs:

21

No of Beneficiaries:

212

No of group linked with bank:

17

Average Saving / Group - Rs. 10,000/-

Rs. 12,000/-

Facility provided to groups:

Register, Passbook, Dari, Sewing Machine, Income Generation training and other

exposure programme like linkages with bank

and training with NRLM.

Groups engaged in income generation

activities:

21

			SHGs Deta	ails: Samr i			
					A/C I	Details	E
SI. No	SHG Name	Village Name	District Name	No. of Members	Members Savings in Bank A/C	Bank Loan Received	Economic Activity Name
1	Gulmohar Self Help group	Amtahi	Balrampur	10	5000.00	(#:	Agriculture
2	Sitara Self Help Group	Amtahi	Balrampur	10	15500.00	250000.00	Stitching Centre
3	Chand Self Help Group	Amtahi	Balrampur	10	14600.00	350000.00	Stitching Centre
4	Muskan Self Help Group	Amtahi	Balrampur	10	8000.00	50000.00	Mid-day meal Program
5	Chameli Self Group	Nawatoli (Amtahi)	Balrampur	10	6500.00	-	Agriculture
6	Nirmala Self Help Group	Amtahi	Balrampur	10	8750.00	50000.00	Agriculture
7	Parwati Self Help Group	Amtahi	Balrampur	10	1764.00	-	Agriculture
8	Nigrani Self Group	Amtahi	Balrampur	10	6278.00	50000.00	Stitching Centre
9	Chandni Self Help Group	Amtahi	Balrampur	10	13599.00	-	Stitching Centre
10	Swajaldhara Self Help Group	Amtahi	Balrampur	10	11712.00	-	Agriculture
11	Savitri Self Help Group	Amtahi	Balrampur	10	8600.00	-	Agriculture
12	Indira Gandhi Self Help Group	Rajendrapur	Balrampur	10	12000.00	-	Agriculture

13	Sonam Self Help Group	Rajendrapur	Balrampur	10	1752.00	-	Agriculture
14	Basanti Self Help Group	Rajendrapur (Pakritoli)	Balrampur	12	22586.00	-	Agriculture
15	Saraswati Self Help Group	Dumerkholi	Balrampur	10	8000.00		Agriculture
16	Chameli Self Help Group	Kutku	Balrampur	10	3458.00	-	Agriculture
17	Champa Self Help Group	Kutku	Balrampur	10	9440.00	-	Agriculture
18	Genda Self Help Group	Tutvihar, Kutku	Balrampur	10	9551.00	-	Agriculture
19	Chandra Mukhi Self Help Group	Samri (West)	Balrampur	10	5000.00	-	Agriculture
20	Tetri Devi Self Help Group	Kutku	Balrampur	10	7500.00	-	Agriculture
21	Khusbu Self Help Group	Rajendrapur (Pakritoli)	Balrampur	10	3571.00	-	Agriculture

For Hindalco Industries Limited
Agent of Mines
Sama Mines Division

Hindaico Industries Ltd

Annexure-D

HINDALCO INDUSTRIES LIMITED SAMRI BAUXITE MINES DIVISION

Year wise /lease wise Afforestation details

Year	Samri lease					
	No. of Saplings	Area in Ha.				
1998-2017	167211	68.154				
2017-18	11681	4.97				
2018-19	19730	7.9				
2019-20	34360	31.59				
2020-21	36160	16.918				
2021-22	47307	11.465				
2022-23	36511	9.898				
2023-24	31651	10.560				
Total	384611	161.455				

For Hindarco Industries Limited

Sama Mines Division Hindaico Industries Ltd

Annexure-E

Hindalco Industrial Limited Samri Mines Division

Ground Water Level Data October 2023 to March 2024

Samri Mine Lease Piezometer Reading						
Date	GW Level in mtr.					
Oct-23	26.2					
Nov-23	26.7					
Dec-23	28.3					
Jan-24	29.1					
Feb-24	29.8					
Mar-24	31.1					
Half Yearly Average	28.5					

For Hindalco Industries Limited



Anacon Laboratories Pvt. Ltd. Nagpur Lab

♥ FP-34, 35, Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122 V+91 8045685558 ■ Email: info@anacon.in 6 https://www.anaconlaboratories.com

Test Report

Test Report No.: ALPL/30032024/1-7		Dated 30/03/2024	5		Page 1 of 5
Issued To:	Sample Inward No.	ALPL/26032024/EN	V-64-GW-1	Analysis S	tart 26/03/2024
M/s. Hindalco Industries Ltd.,	Inward Date	26/03/2024 13562310015 20/05/2023		Analysis E	nd 30/03/2024
P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Reference			Report Issu	ne Date 30/03/2024
Dist.: Darrampur (C.G.) – 497 222.	Reference Date			Sample Categor Ground Wat	
Sample Name Ground Water	Sample Source Borewell Water			of analysis nking	Quantity Received 5 Lit. & 250 ml
Sample Collected By Anacon Representative Mr. Kailash Ch	Sampling Da ahande Sampling Ti		18/03/2024		pling Location NC Camp
Sampling Method ANtd/7.2/MON-01	li, Alkalinity, Ammonia, A	Environmental condition Satisfactory			

hloramines, Free residual chlorine, Fluoride, Magnesium, Nitrate, Odour, pH. Phenolic compounds, Sulphate, Sulphide, Taste, Total dissolved solids, Turbidity, Total hardness, Mineral Oil

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirem IS 1050 (Drinking Wate Including Am	Test Result	
				Acceptable Limit	Permissible Limit #	
1	Biological Testing 1. Water		40 200			
1	Coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
2	Escherichia coli	Per 100 ml	IS 15185: 2016	Absent	Absent	Absent
II	Chemical Testing 1. Water		7 16			riosent
	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23): 1986	200	600	167
4	Ammonia (as N)	mg/l	IS 3025 (Part 34): 1988	0.5	No relaxation	BDL (DL - 0.1)
5	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K): 2005	0.2	1.0	BDL (DL - 0.01)
6	Colour	Hazen units	IS 3025 (Part 4): 2021	5	15	1
7	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 2021	0.05	No relaxation	BDL (DL - 0.005)
8	Chloride (as Cl)	mg/l	IS 3025 (Part 32):1988	250	1000	23.51
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	200	48.29
10	Chloramines (as Cl ₂)	mg/I	IS 3025 (Part 26) : 2021	4.0	No relaxation	BDL (DL - 0.1)
11	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BDL (DL - 0.1)
12	Fluoride (as F)	mg/l	IS 3025 (Part 60): 2008	1.0	1.5	0.16
13	Magnesium (as Mg)	mg/l	IS 3025 (Part 46): 1994	30	100	11.94
14	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition; 2017	45	No relaxation	5.73
15	Odour		IS 3025 (Part 5): 2018	Agreeable	Agreeable	
16	pH		IS 3025 (Part 11) : 2022	6.5 to 8.5	No relaxation	Agreeable 6.82 at 25°C
17	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.001	0.002	
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	200	400	BDL (DL - 0.001)
19	Taste		IS 3025 (Part 8): 1984	Agreeable	Agreeable	26.81
20	Total dissolved solids	mg/l	IS 3025 (Part 16) : 2023	500	2000	Agreeable
21	Turbidity	NTU	IS 3025 : (Part 10): 2023	1	5	452
22	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	0.3
23	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29) : 2022	0.05	7.7.7	169.76
24	Mineral Oil	mg/l	ANtr/7.2/RES/06	0.03	No relaxation No relaxation	BDL (DL - 0.03) BDL (DL - 0.001)

Please refer last Page for Note and Remarks.

Snehal Raut Deputy Technical Manager **Authorized Signatories**

Technical Manager

Dr. (Mrs.) S.D. Garway

Quality Manager



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Test Report

Dated 3	0/03/2024			Page 2 of
Sample Inward No. Inward Date Reference Reference Date	ALPL/26032024/E 26/03/2024 13562310015 20/05/2023	NV-64-GW-1	Analysis End Report Issue Date Sample	30/03/2024
			of analysis	Quantity Received 5 Lit. & 250 ml
	oling Date 18/03/2024 Samplin		g Location C Camp	
	Environmental condition Satisfactory			
	Sample Inward No. Inward Date Reference Reference Date Sample Source Borewell Water Sampling Date Sampling Date Sampling Ti	Inward Date 26/03/2024 Reference 13562310015 Reference Date 20/05/2023 Sample Source Borewell Water Sampling Date 18/03/2 12.50 pm to Environmen Satisfactory	Sample Inward No. ALPL/26032024/ENV-64-GW-1 Inward Date 26/03/2024 Reference 13562310015 Reference Date 20/05/2023 Sample Source Borewell Water Drivate Sampling Date Sampling Time 18/03/2024 Environmental condition Satisfactory	Sample Inward No. ALPL/26032024/ENV-64-GW-1 Analysis Star Inward Date 26/03/2024 Analysis End Reference 13562310015 Report Issue Date Reference Date 20/05/2023 Sample Category Sample Source Borewell Water Purpose of analysis Drinking Sampling Date 18/03/2024 Sampling Date Sampling Date Sampling Time 12.50 pm to 4.10 pm GN Environmental condition

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirer IS 105 (Drinking Wat Including An	Test Result	
			4	Acceptable Limit	Permissible Limit #	
п	Chemical Testing 2. Residues In Water		(64)			
25	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL - 0.01)
26	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL-0.02)
27	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.7	No relaxation	BDL (DL-0.02)
28	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL-0.02)
29	Copper (as Cu)	mg/l	1S 3025 (Part 2): 2019	0.05	1.5	BDL (DL-0.02)
30	Cadmium (as Cd)	mg/l	1S 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.002)
31	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1,0	No relaxation	0.24
32	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.01)
33	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL-0.02)
34	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.001
35	Molybdenum (as Mo)	mg/l	IS 3025 (Part 2): 2019	0.07	No relaxation	BDL (DL - 0.02)
36	Nickel (as Ni)	mg/l	IS 3025 (Part 2): 2019	0.02	No relaxation	BDL (DL - 0.01)
37	Selenium (as Se)	mg/l	IS 3025 (Part 56): 2003	0.01	No relaxation	BDL (DL-0.01)
38	Silver (as Ag)	mg/l	IS 13428 (Annex J): 2005	0.1	No relaxation	BDL (DL-0.01)
39	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL-0.01)
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL-0.02)
41	Uranium	mg/l	ANtr/7.2/RES-Inorg/07	0.03	No relaxation	BDL (DL-0.02.)
II	2. Residues In Water			-100	1 to remadibil	DDL (DL - 0.013)
42	Polychlorinated biphenyls					
	2,2',5-trichlorobiphenyl	μg/I	ANtr/7.2/RES/04: 2018	1/		BDL (DL - 0.03)
	2,4,4'-trichlorobiphenyl	μg/I	ANtr/7.2/RES/04: 2018	1		BDL (DL - 0.03)
	2,2',5,5'-tetrachlorobiphenyl	μg/I	ANtr/7.2/RES/04: 2018	1	-	
	2,2',4,5,5'-pentachlorobiphenyl	μg/1	ANtr/7.2/RES/94; 2018	0.5	No relaxation	BDL (DL - 0.03)
	2,2',3,4,4',5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	V.2	NOTCIANATION	BDL (DL - 0.03)
	2,2',4,4',5,5'-hexachlorobiphenyl	μg/I	ANtr/7.2/RES/04: 2018	1	i i	BDL (DL - 0.03) BDL (DL - 0.03)
	2,2',3,4,4',5,5'-heptachlorobiphenyl	µg/I	ANtr/7.2/RES/04: 2018	1		BDL (DL = 0.03) BDL (DL = 0.03)

Please refer last Page for Note and Remarks.

Verified By

Swati Gondhalekar Dy Technical Manager Nidhi Dubey Dy Technical Manager **Authorized Signatory**

Dr. (Mrs.) S.D. Garway Quality Manager



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Test Report

Test Report No.: ALPL/30032024/	1-7	Dated 3	0/03/2024			Page 3 of
Issued To: M/s. Hindalco Industries Lt. P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Inward Refere		ALPL/26032024/E 26/03/2024 13562310015 20/05/2023	NV-64-GW-1	Analysis Star Analysis End Report Issue Date Sample Category	_0,00,_0_1
Sample Name Ground Water		Sample Source Borewell Water	- a. pose		of analysis	Quantity Received 5 Lit. & 250 ml
Sample Collected By Anacon Representative Mr. Kailash Chahande		Sampling Date 18/03/2024 Sampling Time 12.50 pm to 4.10 pm		Sampling Location GNC Camp		
Sampling Method ANtd/7.2/MON-01		Environmental condition Satisfactory				cump
Tests required, Polynuclear aromatic	hydrocarbon	s, Trihalometha	nes		C.A.	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Require IS 10: (Drinking Wa Including A	Test Result	
				Acceptable Limit	Permissible Limit#	
II	2. Residues In Water	100				
43	Polynuclear aromatic hydrocarbons		,69			
	Naphthalene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Acenaphthylene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0.03
	Acenaphthene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL = 0.03
	Fluorene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Anthracene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Phenanthrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0.03
	Fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0.03
	Benzo(a)anthracene	μg/l	ANtr/7.2/RES/03: 2018	0.1	No relaxation	BDL (DL = 0.03
	Chrysene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0.03
	Benzo(a)pyrene	μg/l	ANtr/7.2/RES/03: 2018	1 1		BDL (DL - 0.03
	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018	1 1		BDL (DL = 0.03
	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018	1 1		BDL (DL = 0.03
	Indeno(123,cd)pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0.03
	Dibenzo(a,h)anthracene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL = 0.03
	Benzo(ghi)perylene	μg/l	ANtr/7.2/RES/03: 2018	1 1		BDL (DL = 0.03
44	Trihalomethanes					BDL (DL - 0.03
i	Bromoform	mg/l		0.1	No relaxation	BDL (DL -0.05)
ii	Dibromochloromethane	mg/l	131. / 5.0 D.D.O.O.	0.1	No relaxation	BDL (DL -0.05
iii	Bromodichloromethane	mg/l	ANtr/7.2/RES/05: 2018	0.06	No relaxation	BDL (DL -0.05
iv	Chloroform	mg/l		0.2	No relaxation	BDL (DL -0.05)

Please refer last Page for Note and Remarks.

Verified By

Swati Gondhalekar Dy Technical Manager **Authorized Signatory**

Dr. (Mrs.) S.D. Garway Quality Manager



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Test Report

Test Report No. : ALPL/30032	2024/1-7		Dated 3	0/03/2024			Page 4 of 5
Issued To: M/s. Hindalco Industries Ltd., P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.		Sample Inward No. Inward Date Reference Reference Date		ALPL/26032024/ENV-64-GW-1 26/03/2024 13562310015 20/05/2023		Analysis Start Analysis End Report Issue Date Sample	26/03/2024 30/03/2024 30/03/2024 Ground Water
Sample Name Ground Water			Sample Source Borewell Water	Lai pose o		Category of analysis nking	Quantity Received 5 Lit. & 250 ml
Sample Collected By Anacon Representative Mr. Kailash Chahande			Sampling Da Sampling Tir		024	Sampling Location GNC Camp	
Sampling Method ANtd/7.2/MON-01			Environmental condition Satisfactory				Camp
Tests required - Pesticide Resid	lues Organ	nochlorine				di T	

			TEST RESULTS		fle, To	
S.N.	Test Parameter	Measurement Unit	Test Method	Requirer IS 105 (Drinking Wat Including An	Test Result	
45	Pesticide Residues Organochi	lorine		Acceptable Limit	eptable Limit Permissible Limit #	
i	Alpha-HCH	μg/l	ANtr/7.2/RES/01: 201	8 0.01	No enterestes	I pp. /pi
ii	Beta HCH	μg/l	ANtr/7.2/RES/01: 201	9.10	No relaxation	BDL (DL - 0.01)
iii	Gamma - HCH (Lindane)	μg/l	ANtr/7.2/RES/01: 201	0.01	No relaxation	BDL (DL - 0.03)
iv	Delta- HCH	μg/1	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
v	Alachlor	μg/l	ANtr/7.2/RES/01: 201	0.01	No relaxation	BDL (DL - 0.03)
vi	Aldrin	μg/l	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
vii	Dieldrin	μg/l	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
viii	Butachlor	μg/1			No relaxation	BDL (DL - 0.03)
ix	p,p'-DDE		ANtr/7.2/RES/01: 201	100	No relaxation	BDL (DL - 0.03)
X	o.p'-DDE	μg/l	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xi	p,p'-DDD	μg/1	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xii	o,p'-DDD	μg/l	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xiii	o,p'-DDT	μg/1	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xiv	p,p'- DDT	μg/I	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
XV	Monocrotophos		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xvi	Atrazine		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xvii	Parathion methyl		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xviii		-	ANtr/7.2/RES/01: 201	3010	No relaxation	BDL (DL - 0.03)
-	Paraoxon methyl		ANtr/7.2/RES/01: 201		-	BDL (DL - 0.03)
xix	Malathion		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
XX	Malaoxon		ANtr/7.2/RES/01: 201		-	BDL (DL - 0.03)
xxi	Ethion		ANtr/7.2/RES/01: 201	8 3	No relaxation	BDL (DL - 0.03)
xxii	Chlorpyrifos	μg/l	ANtr/7.2/RES/01: 201	8 30	No relaxation	BDL (DL - 0.03)
	Phorate			018 2	No relaxation	DD (DE 0.03)
xxiii	Phorate-sulfone	μg/l	ANtr/7.2/RES/01: 201			BDL (DL - 0.03)
	Phorate-sulfoxide					

☐ Please refer last Page for Note and Remarks.

Verified By

Swati Gondhalekar Dy Technical Manager **Authorized Signatory**

Dr. (Mrs.) S.D. Garway Quality Manager



Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Test Report No.: ALPL/30032024/1	7	Dated 3	0/03/2024			Page 5 of
Issued To: M/s. Hindalco Industries Ltd P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Inward Refere		ALPL/26032024/ENV-64-GW-1 26/03/2024 13562310015 20/05/2023		Analysis Start Analysis End Report Issue Date Sample Category	26/03/2024 30/03/2024 30/03/2024 Ground Water
Sample Name Ground Water		Sample Source Borewell Water			of analysis king	Quantity Received 5 Lit. & 250 ml
Sample Collected By Anacon Representative Mr. Kailash	Sampling Date 18/03/2024 Sampling Time 12.50 pm to 4.10 pm		024	Sampling Location GNC Camp		
Sampling Method ANtd/7.2/MON-01	Environmental condition Satisfactory					
Tests required - Pesticide Residues Or	ganophosph	orus				

TEST RESULTS

S.N.	Test Parameter	Measuremen t Unit	Test Method	Requ IS (Drinking V Including	Test Result					
				Acceptable Limit	Permissible Limit #					
xxiv	Endosulphan									
	Alpha-Endosulphan		ANtr/7 2/RES/01: 2018	0. 4	No relaxation	DDI IS				
	Beta-Endosulphan	PE 1 /1.VII / 1.2/1CE3/U1 , 2016								
	Endosulphan sulphate		0. 4	No relaxation	BDL (DL - 0.03)					
45	Pesticide Residues Organophosphorus									
XXV	2,4-Dichlorophenoxyacetic acid	μg/l	ANtr/7.2/RES/02:2018	30	No volovotico	DDI (DI GOO)				
10000000	Isoproturon	1.5	ANtr/7.2/RES/02: 2018	30	No relaxation	BDL (DL - 0.03)				

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REMARKS: As requested by the client, sample was tested for above parameters only. The submitted sample complies with requirement as per IS: 10500:2012, for tests conducted only.

Verified By

Swati Gondhalekar

Dy Technical Manager

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

-----END OF REPORT-----



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Test Report

Test Report No.: ALPL/30032024/1-8		Dated 30/03/202	4		Page 1 of 5
Issued To:	Sample Inward No.	ALPL/26032024/ENV-64-GW-2 26/03/2024 13562310015		Analysis S	26/03/2024
M/s. Hindalco Industries Ltd., P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Inward Date Reference Reference Date			Analysis E	ne Date 30/03/2024
Sample Name		20/05/2023	1 4	Sample Ca	gasenali construententententententententententententente
Ground Water	Sample Source Borewell Water		Purpose of analysis Drinking		Quantity Received 5 Lit. & 250 ml
Sample Collected By Anacon Representative Mr. Kailash Ch		Sampling Date 18/03/2024 Sampling Time 12.50 pm to 4.10 pm		Sampling Location Water ATM Outlet	
Sampling Method ANtd/7.2/MON-01 Tests required Coliform, Escherichia co.		Environmental condition Satisfactory			

Tests required Coliform, Escherichia coli, Alkalinity, Ammonia, Anionic surface active agents, Colour, Cyanide, Chloride, Calcium, Chloramines, Free residual chlorine, Fluoride, Magnesium, Nitrate, Odour, pH, Phenolic compounds, Sulphate, Sulphide, Taste, Total dissolved solids, Turbidity. Total hardness, Mineral Oil

TEST RESULTS

S.N.	Test Parameter	lest rarameter	Measurement Unit	Toot Mothed		Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		
				Acceptable Limit	Permissible Limit #			
I	Biological Testing 1. Water							
1	Coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent		
2	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent		
П	Chemical Testing 1. Water				1.00.00	riosciii		
	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23): 1986	200	600	193		
4	Ammonia (as N)	mg/l	IS 3025 (Part 34): 1988	0.5	No relaxation	BDL (DL - 0.1)		
5	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K): 2005	0.2	1.0	BDL (DL - 0.1)		
6	Colour	Hazen units	IS 3025 (Part 4): 2021	5	15	BDL (DL - 0.01)		
7	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 2021	0.05	No relaxation	BDL (DL - 0.005)		
8	Chloride (as Cl)	mg/l	IS 3025 (Part 32):1988	250	1000	16.52		
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	200	51.68		
10	Chloramines (as Cl ₂)	mg/I	IS 3025 (Part 26): 2021	4.0	No relaxation	BDL (DL - 0.1)		
11	Free Residual Chlorine	mg/l	IS 3025 (Part 26): 2021	Min. 0.2	1 IND TELEXACION			
12	Fluoride (as F)	mg/l	IS 3025 (Part 60): 2008	1.0	1.5	BDL (DL - 0.1)		
13	Magnesium (as Mg)	mg/l	IS 3025 (Part 46): 1994	30	1.00	0.17		
14	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	4.92		
15	Odour		IS 3025 (Part 5) : 2018	Agreeable	Agreeable	3.86		
16	pH		IS 3025 (Part 11): 2022	6.5 to 8.5	No relaxation	Agreeable		
17	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43): 2022	0.001	0.002	6.97 at 25°C		
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	200	400	BDL (DL - 0.001)		
19	Taste		IS 3025 (Part 8): 1984	Agreeable	17.71.51.X	16.43		
20	Total dissolved solids	mg/I	IS 3025 (Part 16) : 2023	500	Agreeable 2000	Agreeable		
21	Turbidity	NTU	IS 3025 : (Part 10): 2023	300	2000	168		
22	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	0.2		
23	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29) : 2022	0.05	2.00	149.41		
24	Mineral Oil	mg/l	ANu/7.2/RES/06	0.03	No relaxation No relaxation	BDL (DL - 0.03) BDL (DL - 0.001)		

☐ Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager **Authorized Signatories**

Pooja Katriane Technical Manager



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Test Report

le Inward No. d Date ence	ALPL/26032024/E 26/03/2024 13562310015	NV-64-GW-2	Analysis Start Analysis End Report Issue	30/03/2024
ence Date	20/05/2023		Date Sample	30/03/2024 Ground Water
Sample Source Borewell Water			of analysis	Quantity Received 5 Lit. & 250 ml
	ng Date 18/03/2024 Sampl		ing Location ATM Outlet	
	Environmental conditio			on
	Sample Source Borewell Water Sampling Da Sampling Tin	Sample Source Borewell Water Sampling Date Sampling Time 12.50 pm to	Sample Source Borewell Water Sampling Date Sampling Time 18/03/2024 12.50 pm to 4.10 pm Envir	Sample Source Borewell Water Sampling Date Sampling Time Purpose of analysis Drinking Sampling Date 18/03/2024 Sampling Time 12.50 pm to 4.10 pm Water Environmental conditions Satisfactory Dr., Copper, Cadmium, Iron, Lead, Managanese, Mercury, Mohibdow

TEST RESULTS

			TEST RESULTS			
S.N.	Test Parameter	Test Parameter Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
			A	Acceptable Limit	Permissible Limit #	
П	Chemical Testing 2. Residues In Water		4 6 6 6 6			
25	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	DDI (DI 4 6 6 D
26	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01)
27	Barium (as Ba)	mg/l	IS 3025 (Part 2) : 2019	0.7	No relaxation	BDL (DL-0.02)
28	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5		BDL (DL-0.02)
29	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	2.4	BDL (DL-0.02)
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003		BDL (DL-0.02)
31	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	BDL (DL - 0.002
32	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	0.09
33	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	0.1	No relaxation	BDL (DL - 0.01)
34	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	0.3	BDL (DL-0.02)
35	Molybdenum (as Mo)	mg/l	IS 3025 (Part 2): 2019	0.07	No relaxation	BDL (DL - 0.001)
36	Nickel (as Ni)	mg/l	IS 3025 (Part 2): 2019	0.07	No relaxation	BDL (DL - 0.02)
37	Selenium (as Se)	mg/l	IS 3025 (Part 56): 2003	0.02	No relaxation	BDL (DL - 0.01)
38	Silver (as Ag)	mg/l	IS 13428 (Annex J): 2005		No relaxation	BDL (DL-0.01)
39	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.1	No relaxation	BDL (DL-0.01)
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.02)
41	Uranium	mg/l	ANtr/7.2/RES-Inorg/07	5	15	BDL (DL-0.02.)
II	2. Residues In Water	ingr	ANII//2/RES-Inorg/0/	0.03	No relaxation	BDL (DL - 0.015)
42	Polychlorinated biphenyls					*
	2,2',5-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			
	2,4,4'-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.03)
	2,2',5,5'-tetrachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	-		BDL (DL - 0.03)
	2,2',4,5,5'-pentachlorobiphenyl	μg/1	ANtr/7.2/RES/04: 2018	0.5	Manufacture	BDL (DL - 0.03)
1	2,2',3,4,4',5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	0.5	No relaxation	BDL (DL - 0.03)
	2,2',4,4',5,5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	4		BDL (DL - 0.03)
	2,2',3,4,4',5,5'-heptachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	4		BDL (DL - 0.03)
TO.	so refer lest Bare for Not	pg1	ADM/ 1.2/(CES/04: 2018			BDL (DL - 0.03)

☐ Please refer last Page for Note and Remarks.

Verified By

Swati Gondhalekar Dy Technical Manager

Nidhi Dubey Dy Technical Manager **Authorized Signatory**



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Test Report

Test Report No. : ALPL/30032024/1-8	Series of the se	30/03/2024		1	Page 3 of 5
Issued To:	Sample Inward No.	ALPL/26032024/EN	V-64-GW-2	Analysis Start	26/03/2024
M/s. Hindalco Industries Ltd.,	Inward Date	26/03/2024	Analysis E		30/03/2024
P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Reference			Report Issue I	50,00,2024
A commence of the second	Reference Date	20/05/2023		Sample Catego	ory Ground Water
Sample Name Ground Water	Sample Source Borewell Water		Purpose o	S.C. annual Contract of the Co	Quantity Received 5 Lit. & 250 ml
Sample Collected By Anacon Representative Mr. Kailash Ch		Sampling Date 18/03/2024 Sampling Time 12.50 pm to 4.10 p		Sampli	ng Location TM Outlet
Sampling Method ANtd/7.2/MON-01		Environmenta Satisfactory	condition		COUNTY OF STATE AND ASSESSMENT OF STATE ASSESSMENT OF STATE AND ASSESSMENT OF STATE AND ASSESSMENT OF STATE ASSESSMENT OF STAT

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wa	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Result
				Acceptable Limit	Permissible Limit#	
П	2. Residues In Water		- Out			
43	Polynuclear aromatic hydrocarbons					
	Naphthalene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Acenaphthylene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Acenaphthene	μg/l	ANtr/7.2/RES/03: 2018	i l		BDL (DL - 0.03
	Fluorene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03
	Anthracene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Phenanthrene	μ g/ l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0)
	Fluoranthene	μg/l	ANtr/7.2/RES/03: 2018	0.1		BDL (DL - 0.03
	Pyrene	μg/l	ANtr/7.2/RES/03: 2018		w Droom was reserved	BDL (DL - 0.03
	Benzo(a)anthracene	μg/l	ANtr/7.2/RES/03: 2018		No relaxation	BDL (DL - 0.0)
	Chrysene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Benzo(a)pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03
	Indeno(123,cd)pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Dibenzo(a,h)anthracene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03
	Benzo(ghi)perylene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL -0.03
44	Trihalomethanes			1		BBE (BE 0.00
i	Bromoform	mg/l		0.1	No relaxation	BDL (DL -0.05
ii	Dibromochloromethane	mg/l	AND A STREET	0.1	No relaxation	BDL (DL -0.05
iii	Bromodichloromethane	mg/l	ANtr/7.2/RES/05: 2018	0.06	No relaxation	BDL (DL -0.05
iv	Chloroform	mg/l		0.2	No relaxation	BDL (DL -0.05

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Swati Candhalala

Swati Gondhalekar Dy Technical Manager **Authorized Signatory**



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Test Report

mple Inward No. ward Date ference	ALPL/26032024/E 26/03/2024 13562310015	NV-64-GW-2	Analysis Start Analysis End Report Issue	26/03/2024 30/03/2024 30/03/2024
ference Date	20/05/2023		Date Sample	Ground Water
			of analysis	Quantity Received 5 Lit. & 250 ml
	Sampling Date 18/03/2024		Sampling Location Water ATM Outlet	
	Environmental condition			1m Oulet
	Borewell Water Sampling Da	Sample Source Borewell Water Sampling Date Sampling Time Sampling Time Satisfactory	Sample Source Borewell Water Sampling Date Sampling Time Environmental condition Satisfactory	Sample Source Borewell Water Sampling Date Sampling Time Samplin

			TEST RESULTS			
S.N.	Test Parameter	Test Parameter Measurement Unit Test Method (Drinki		IS 105 (Drinking Wat Including An	Requirement as per IS 10500 : 2012 Drinking Water Specifications) Including Amendment No. 4	
45	Pesticide Residues Organochi	orine		Acceptable Limit	Permissible Limit #	
i	Alpha-HCH	μg/l	ANtr/7.2/RES/01: 201	8 0.01	T vi i	Table 1
ii	Beta HCH	μg/1	ANtr/7.2/RES/01: 201	0.0.1	No relaxation	BDL (DL - 0.01)
iii	Gamma - HCH (Lindane)	μg/I	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
iv	Delta- HCH	μg/1	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
v	Alachlor	μg/1	ANtr/7.2/RES/01: 201	200,0790,70	No relaxation	BDL (DL - 0.03)
vi	Aldrin	μg/l	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
vii	Dieldrin	μg/l	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
viii	Butachlor	μg/l	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
ix	p,p'-DDE	μg/l	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
X	o,p'-DDE	μg/l	ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xi	p,p'-DDD		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xii	o,p'-DDD		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xiii	o,p'- DDT		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xiv	p,p'- DDT				No relaxation	BDL (DL - 0.03)
XV	Monocrotophos		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xvi	Atrazine		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xvii	Parathion methyl		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xviii	Paraoxon methyl		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xix	Malathion		ANtr/7.2/RES/01: 201			BDL (DL - 0.03)
XX	Malaoxon		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
xxi	Ethion		ANtr/7.2/RES/01: 201	tales and the same of the same	2. Z.	BDL (DL - 0.03)
xxii	Chlorpyrifos		ANtr/7.2/RES/01: 201		No relaxation	BDL (DL - 0.03)
AAH	Phorate	μg/l	ANtr/7.2/RES/01: 201:	8 30	No relaxation	BDL (DL - 0.03)
xxiii			West Astronocomows			
XXIII	Phorate-sulfone	μg/l	ANtr/7.2/RES/01: 2013	8 2	No relaxation	BDL (DL - 0.03)
	Phorate-sulfoxide					The state of the s

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Swati Gondhalekar Dy Technical Manager **Authorized Signatory**



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Test Report

Test Report No.: ALPL/30032024/	1-8	Dated 3	0/03/2024			Page 5 of
Issued To: M/s. Hindalco Industries Lt P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	d., Inward		ALPL/26032024/1 26/03/2024 13562310015 20/05/2023	ENV-64-GW-2	Analysis Star Analysis End Report Issue Date Sample	
Sample Name Ground Water		Sample Source Pur Borewell Water			Category of analysis nking	Quantity Received 5 Lit. & 250 ml
Sample Collected By Anacon Representative Mr. Kailash Chahande		Sampling Date 18/03/2024 Sampling Time 12.50 pm to 4.10 pm		2024	Sampling Location Water ATM Outlet	
Sampling Method ANtd/7.2/MON-01		Environmental condition Satisfactory			TW Outlet	
Tests required - Pesticide Residues (rganophospho	orus			et al.	

TEST RESULTS

S.N.	Test Parameter	Measuremen t Unit	Test Method	IS (Drinking V	irement as per 10500 : 2012 Vater Specifications) Amendment No. 4	Test Result
				Acceptable Limit	Permissible Limit #	
xxiv	Endosulphan		- F - F - F - F - F - F - F - F - F - F			
	Alpha-Endosulphan			-	Ť	
	Beta-Endosulphan	μg/l	ANtr/7.2/RES/01: 2018	0. 4	Manus Parcay.	BDL (DL - 0.03)
	Endosulphan sulphate		7.1.1.1.2.1.2.3.01.2018	0. 4	No relaxation	
45	Pesticide Residues Organophos	ohorus	45. 7			
XXV	2,4-Dichlorophenoxyacetic acid	μg/I	ANtr/7.2/RES/02:2018	30	N	I nn.
xxvi	Isoproturon	μg/l	ANtr/7.2/RES/02: 2018	9	No relaxation	BDL (DL - 0.03)
	the decidate	1.0		7	No relaxation	BDL (DL - 0.03

NOTE: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Liability of Anacon Labs is limited to invoiced amount only. • Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. • #Permissible limit in absence of an alternate source for drinking water. • 'mg/l' is equivalent to 'ppm'. • 'µg/l' is equivalent to 'ppb'. • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument method and shall be considered as 'absent'. • ANtr/7.2/RES/02: 2018, ANtr/7.2/RES-Inorg/07 & ANtr/7.2/RES-06: Inhouse validated method • BDL- Below detection limit. DL-DL Indicates detection limit of instrument/method and shall be considered as 'absent'. REMARKS: As requested by the client, sample was tested for above parameters only. The submitted sample complies with requirement as per IS: 10500:2012, for

tests conducted only.

Verified By

Swati Gondhalekar Dy Technical Manager

-----END OF REPORT-----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Test Re	port No. : A	LPL/30	122023/1-7
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Issued To:	Sample Inward No.	Sample Inward No. ALDI (10400000				
M/s. Hindalco Industries Ltd.,	Inward Date	ALPL/18122023/ENV-318/1-GW 18/12/2023	-1 Analysis Start Analysis End	18/12/2023 25/12/2023		
P.O. Samri, Dist.: Balrampur (C.G.) – 497 222. Sample Name	1		Report Issue Date	30/12/2023		
	Reference Date 20/05/2023 Sample Collected By Anacon Representative Mr. Kailash Chahande Sample Source Sampling Date Borewell Water 12/12/2023		Sample Category	Ground Water		
Ground Water			Quantity	Quantity Received 5 L & 250ml		
Sampling Location GNC Camp			Samplin 2.40	g Time		

	Vic.		TEST RESULTS			o pin
S.N.	Test Parameter	Measurement Unit	Measurement Unit Test Method		Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No.4	
I	Biological Testing 1. Water			Acceptable Limit	Permissible Limit#	
1	Coliform				Limit#	
2	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	4
П	Chemical Testing 1. Water	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
3	Alkalinity (as CaCO ₃)			Tacacine	Absent	Absent
4	Ammonia (as N)	mg/l	IS 3025 (Part 23): 1986	200	600	
	Anionic surface active agents	mg/l	IS 3025 (Part 34): 1988	0.5		167
5	(as MBAS) Colour	mg/l	IS 13428 : 2005 Annex K	0.2	No relaxation	BDL (DL = 0.1)
7		Hazen units	IS 3025 (Part 4): 2021	5		BDL (DL - 0.01)
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986		15	1
9	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	0.05	No relaxation	BDL (DL - 0.005
10	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	250	1000	32.94
	Chloramines (as Cl ₂)	mg/l	IS 3025 (Part 26) : 2021	75	200	51.63
11	Free residual chlorine	mg/l	IS 3025 (Part 26) : 2021	4.0	No relaxation	BDL (DL - 0.1)
12	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	Min. 0.2	1	BDL (DL - 0.1)
13	Magnesium (as Mg)	mg/l	IS 3025 (Part 46): 1994	1.0	1.5	0.24
14	Nitrate (as NO ₁)	mg/l	APHA 23rd Edition	30	100	13.82
15	Odour		IS 3025 (Part 5): 2018	45	No relaxation	BDL (DL - 2)
16	pH		IS 3025 (Part 11) : 2022	Agreeable	Agreeable	Agreeable
17	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 11): 2022 IS 3025 (Part 43): 1992	6.5 to 8.5	No relaxation	6.82 at 25°C
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 34) : 1992	0.001	0.002	BDL (DL - 0.001)
19	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 24) : 2022	200	400	23.98
20	Taste	mg.	IS 3025 (Part 29) : 1986	0.05	No relaxation	BDL (DL - 0.03)
21	Total dissolved solids	mg/l	IS 3025 (Part 8): 1984	Agreeable	Agreeable	Agreeable
22	Turbidity	NTU	IS 3025 (Part 16): 2023	500	2000	465
23	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 10): 1984	1	5	0.6
24	Mineral Oil	ma/l	IS 3025 (Part 21): 2009	200	600	185.83
Ples	ase refer last Page for Note and Rem	mg/l	ANtr/7.2/RES/06: 2018	0.5	No relaxation	BDL (DL - 0.001)

Verified By

Snehal Raut Deputy Technical Manager Chemist

Authorized Signatories

Pooja Kathane Technical Manager



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Test Report

Issued To: M/s. Hindalco Industries Ltd., P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Inward Date 18/12/2023		Analysis Start Analysis End Report Issue	Page 2 of 5 18/12/2023 25/12/2023 30/12/2023
	Reference Date 20/05/2023		Date Sample Category Ground V	
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity Received 5 L & 250ml	
Sampling Location GNC Camp	Sample Source Borewell Water		Sampling Time 2.40 pm	

S.N.	Test Parameter	Measurement Unit	Test Method	IS 10: (Drinking Wa	ement as per 500 : 2012 ter Specifications) mendment No. 4	Test Result
П	Chemical Testing			Acceptable Limit	Permissible Limit #	
25	2. Residues In Water			:• ·		
25	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	DDI /DI
27	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01
28	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.7	No relaxation	BDL (DL - 0.01
29	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.01
30	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.1)
31	Cadmium (as Cd) Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.03
32	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	BDL (DL - 0.00)
33	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	0.17
34	Mercury (as Hg)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.001
35	Molybdenum (as Mo)	mg/l	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.05)
36	Nickel (as Ni)	mg/l	IS 3025 (Part 2): 2019	0.07	No relaxation	BDL (DL - 0.000
37	Selenium (as Se)	mg/l	IS 3025 (Part 2): 2019	0.02	No relaxation	BDL (DL - 0.01)
38	Silver (as Ag)	mg/l	IS 3025 (Part 56): 2003	0.01	No relaxation	BDL (DL - 0.01)
39	Total Chromium (as Cr)	mg/l	IS 13428 (Annex J): 2005	0.1	No relaxation	BDL (DL- 0.001)
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.001
	Zine (ds Zii)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.03) BDL (DL - 0.1)

Please refer last Page for Note and Remarks.

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Mangest Fande Technical Manager **Authorized Signatory**



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Test Report

Test Report No.: ALPL/30122023/1-7 Page 3 of 5 Sample Inward No. Issued To: ALPL/18122023/ENV-318/1-GW-1 Analysis Start 18/12/2023 Inward Date M/s. Hindalco Industries Ltd., 18/12/2023 Analysis End 25/12/2023 P.O. Samri, Reference 13562310015 Report Issue 30/12/2023 Dist.: Balrampur (C.G.) - 497 222. Date Reference Date 20/05/2023 Sample Category Ground Water Sample Name Sample Collected By Quantity Received Ground Water Anacon Representative Mr. Kailash Chahande 5 L & 250ml Sampling Location Sample Source Sampling Date **GNC Camp** Sampling Time

	GNC Camp	Borewell V	Vater	ter 12/12/20			ng Time		
	•		TEST RESU			2.40	pm		
S.N.	Test Parameter	Measurement Unit			Requirement as per IS 10500: 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Resu		
II	Chemical Testing				Acceptable Limit	Permissible Limit #			
41	2. Residues In Water								
41	Polychlorinated biphenyls				- V				
	2,2',5-trichlorobiphenyl	μg/l	ANtr/7.2/RES	2/04+2019					
	2,4,4'-trichlorobiphenyl	μg/l	ANtr/7.2/RES	2/04: 2018		1 1 512	BDL (DL - 0.		
1	2,2',5,5'-tetrachlorobiphenyl	μg/I	ANtr/7.2/RES	2/04: 2018			BDL (DL - 0.		
	2,2',4,5,5'-pentachlorobiphenyl	μg/I	ANtr/7.2/RES	2/04: 2018	0.5		BDL (DL - 0.		
	2,2',3,4,4',5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES	/04: 2018		No relaxation	BDL (DL - 0.		
	2,2',4,4',5,5'-hexachlorobiphenyl	μg/I	ANtr/7.2/RES	704. 2018			BDL (DL - 0.		
-	2,2',3,4,4',5,5'-heptachlorobiphenyl	μg/I	ANtr/7.2/RES	704. 2018	210)	BDL (DL - 0.		
12	Polynuclear aromatic hydrocarbons		TUNUT 1.27 KES	704. 2018			BDL (DL - 0		
-	Naphthalene	μg/l	ANtr/7.2/RES	/03-2019					
-	Acenaphthylene	μg/l	ANtr/7.2/RES	/03: 2018	E-				BDL (DL - 0.0
-	Acenaphthene	μg/1	ANtr/7.2/RES	/03. 2018		Y Y	BDL (DL - 0.		
1	Fluorene	µg/I	ANtr/7.2/RES	/03. 2018			BDL (DL - 0.0		
-	Anthracenc	μg/l	ANtr/7.2/RES	/03: 2018			BDL (DL - 0.0		
-	Phenanthrene	μg/l	ANtr/7.2/RES/	03: 2018			BDL (DL - 0.0		
-	Fluoranthene	μg/l	ANtr/7.2/RES/	03. 2018			BDL (DL - 0.0		
-	Pyrene	µg/l	ANtr/7.2/RES/	03: 2018		V-	BDL (DL - 0.0		
-	Benzo(a)anthracene	μg/l	ANtr/7.2/RES/	03: 2018	0.1	No relaxation	BDL (DL - 0.0		
-	Chrysene	μg/l	ANtr/7.2/RES/	03: 2018	wt	Noteiaxation	BDL (DL - 0.0		
-	Benzo(a)pyrene	μg/1	ANtr/7.2/RES/	03: 2018			BDL (DL - 0.0		
-	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/	03: 2018		Ī	BDL (DL - 0.0		
	Benzo(k)fluoranthene	µg/l	ANtr/7.2/RES/	03: 2018		1	BDL (DL - 0.0		
-	Indeno(123,cd)pyrene	μg/l	ANItr/7 2/RES/	03: 2018		Ì	BDL (DL - 0.0		
	Dibenzo(a,h)anthracene	μg/l	ANtr/7.2/RES/ ANtr/7.2/RES/	03: 2018			BDL (DL - 0.0		
	Benzo(ghi)perylene	μg/l	ANtr/7.2/RES/	03: 2018		-	BDL (DL - 0.0.		
Pleas	e refer last Page for Note and Rema		ANU/ /.2/KES/	03: 2018			BDL (DL		

Please refer last Page for Note and Remarks.

Verified By

Radha Pawar Chemist

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Test Report

Test Report No.: ALPL/30122023/1-7

Issued To:	Sample Inward No.	ALPL/18122023/ENV-318/1-GW-1	Analysis Start	Page 4 of 5 18/12/2023
M/s. Hindalco Industries Ltd.,	Inward Date	18/12/2023	Analysis End	25/12/2023
P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Reference 13562310015		Report Issue	30/12/2023
	Reference Date	20/05/2023	Date	
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Sample Category Ground Water Quantity Received	
Sampling Location GNC Camp	Sample Source Borewell Water	Sampling Date 12/12/2023	5 L & 250ml Sampling Time 2.40 pm	

	¥.		TEST RESULTS		2.4	0 pm
S.N.	Test Parameter Measurement Unit		Test Method	Requirement as per 1S 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
;	Trihalomethanes Bromoform			Acceptable Limit	Permissible Limit #	
ii		mg/l		0.1	T 31	
iii	Dibromochloromethane	mg/l	131 / 2 am	0.1	No relaxation	BDL (DL -0.05
iv	Bromodichloromethane	mg/l	ANtr/7.2/RES/05: 2018	0.06	No relaxation	BDL (DL -0.05
44	Chloroform	mg/l	-	0.00	No relaxation	BDL (DL -0.05
i	Pesticide Residues Organochlo	rine		0.2	No relaxation	BDL (DL -0.05
	Alpha-HCH	μg/l	ANtr/7.2/RES/01: 2018	0.01	227	
ii iii	Beta HCH	μg/l	ANtr/7.2/RES/01: 2018	0.01	No relaxation	BDL (DL - 0.0
_	Gamma - HCH (Lindane)	μg/l	ANtr/7.2/RES/01: 2018	0.04	No relaxation	BDL (DL - 0.0.
iv	Delta- HCH	μg/l	ANtr/7.2/RES/01: 2018	2	No relaxation	BDL (DL - 0.0)
V	Alachlor	μg/l	ANtr/7.2/RES/01: 2018	0.04	No relaxation	BDL (DL - 0.03
vi	Aldrin	μg/l	ANtr/7.2/RES/01: 2018	20	No relaxation	BDL (DL - 0.03
vii	Dieldrin	μg/1	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03
viii	Butachlor	μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03
ix	p,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	125	No relaxation	BDL (DL - 0.03
x	o,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03
xi	p,p'-DDD	μg/l	ANItr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03
xii	o,p'-DDD		ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03
ciii	o,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03
civ	p,p'- DDT	μg/1	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03
	Endosulphan	μg/1	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03
	Alpha-Endosulphan				- i side di l'oli	BDL (DL - 0.03
ı	Beta-Endosulphan		122			
	Endosulphan sulphate	μg/l	ANtr/7.2/RES/01: 2018	0. 4	No relaxation	BDL (DL - 0.03)

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Radha Pawar Chemist **Authorized Signatory**



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Test Report No. : A	LPL/30122023/1-7
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Issued To:	Sample Inward No.	ALPL/18122023/ENV-318/1-GW-	2 7900 - 100 1000	Page 5 of 5
M/s. Hindalco Industries Ltd.,		18/12/2023 18/12/2023	Analysis Start Analysis End	18/12/2023 25/12/2023
P.O. Samri, Dist.: Balrampur (C.G.) – 497 222. Sample Name	Reference 13562310015		Report Issue Date	30/12/2023
	Reference Date	20/05/2023	Sample Category Ground Wate Quantity Received 5 L & 250ml Sampling Time 2.40 pm	
Ground Water	Anacon Represent	ele Collected By artive Mr. Kailash Chahande		
Sampling Location GNC Camp	Sample Source Borewell Water			

S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat Including An	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4	
44	Pesticide Residues Organopho	enhorne		Acceptable Limit	Permissible Limit #	
xvi	2,4-Dichlorophenoxyacetic acid		AND IT OFFICE	100		
xvii	Monocrotophos	- 10	ANtr/7,2/RES/02: 2018	30	No relaxation	BDL (DL - 0.03
xviii	Atrazine	μg/l	ANtr/7.2/RES/02: 2018	1	No relaxation	BDL (DL - 0.03
xix	Parathion methyl	μg/l	ANtr/7.2/RES/02 : 2018	2	No relaxation	DDL (DL - 0.03
XX	Paraoxon methyl	μg/l	ANtr/7.2/RES/02: 2018	0.3	No relaxation	BDL (DL - 0.03
xxi	Isoproturon	μg/l	ANtr/7.2/RES/02 : 2018		- To relaxation	BDL (DL - 0.03
xxii	Malathion		ANtr/7.2/RES/02:2018	9	No relaxation	BDL (DL - 0.03
xxiii	Malaoxon	μg/l	ANtr/7.2/RES/02:2018	190		BDL (DL - 0.03
		μg/l	ANtr/7.2/RES/02:2018		No relaxation	BDL (DL - 0.03
xxiv	Ethion	μg/l	ANtr/7.2/RES/02:2018	2	N 1	BDL (DL - 0.03
XXV	Chlorpyrifos		ANtr/7.2/RES/02:2018	30	No relaxation	BDL (DL - 0.03)
cxvi	Phorate			30	No relaxation	BDL (DL - 0.03
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02 : 2018			
	Phorate-sulfoxide			2	No relaxation	BDL (DL - 0.03)

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only.

• Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Liability of Anacon Labs is limited to invoiced amount only. • Non-perishable and alternate source for drinking water. • 'mg/l' is equivalent to 'ppm'. • 'µg/l' is equivalent to 'ppm'. • 'µg/l' is equivalent to 'ppb'. • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument and shall be considered as 'absent'. • Result for test no. 11 is not relevant. • ANqr RES-: Inhouse validated method.

REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Radha Pawar Chemist **Authorized Signatory**

Dr. (Mrs.) S.D. Garway Quality Manager

-----END OF REPORT----



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Test Report

Test Re	port No.	: ALPL	/30122023	/1-8
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Issued To:	Sample Inward No.	ALPL/18122023/ENV-318/1-GW-	and the second s	Page 1 of 5
M/s. Hindalco Industries Ltd.,	GB 550	18/12/2023	Analysis Start Analysis End	18/12/2023 25/12/2023
P.O. Samri, Dist.: Balrampur (C.G.) – 497 222. Sample Name	The state of the s		Report Issue Date	30/12/2023
	Reference Date	20/05/2023	Sample Category Ground Water	
Ground Water		ele Collected By ative Mr. Kailash Chahande	Quantity Received 5 L & 250ml Sampling Time 2.10 pm	
Sampling Location Water ATM Outlet	Sample Source Borewell Water	Sampling Date 12/12/2023		

S.N.	Test Parameter	Measurement Unit	TEST RESULTS Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
1	Biological Testing 1. Water			Acceptable Limit	Permissible Limit #	1
1	Coliform	T B 100			1 Chine	
2	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
II	Chemical Testing 1. Water	Per 100 m1	IS 15185 : 2016	Absent	Absent	
3	Alkalinity (as CaCO ₃)				1 tostin	Absent
4	Ammonia (as N)	mg/l	IS 3025 (Part 23): 1986	200	600	121.94
5	Anionic surface active agents (as MBAS)	mg/l	IS 3025 (Part 34): 1988	0.5	No relaxation	
6	Colour	mg/l	IS 13428 : 2005 Annex K	0.2	1.0	BDL (DL - 0.1)
7	Cyanide (as CN)	Hazen units	IS 3025 (Part 4): 2021	5	15	BDL (DL - 0.01
8	Chloride (as CI)	mg/l	IS 3025 (Part 27): 1986	0.05	No relaxation	DDI (DI GGG
9	Calcium (as Ca)	mg/l	IS 3025 (Part 32) :1988	250	1000	BDL (DL - 0.005
10	Chloromicas (a. Ct.)	mg/l	IS 3025 (Part 40): 1991	75	200	28.57
11	Chloramines (as Cl ₂)	mg/i	IS 3025 (Part 26): 2021	4.0		48.93
12	Free residual chlorine	mg/l	IS 3025 (Part 26): 2021	Min. 0.2	No relaxation	BDL (DL - 0.1)
13	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1	BDL (DL - 0.1)
	Magnesium (as Mg)	mg/l	IS 3025 (Part 46): 1994	30	1.5	0.27
14	Nitrate (as NO ₃)	mg/l	APHA 23 rd Edition	45	100	12.96
15	Odour		IS 3025 (Part 5): 2018		No relaxation	BDL (DL - 2)
16	рН		IS 3025 (Part 11) : 2022	Agreeable	Agreeable	Agreeable
17	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43): 1992	6.5 to 8.5	No relaxation	7.26 at 25°C
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	0.001	0.002	BDL (DL - 0.001)
19	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29) : 1986	200	400	21.94
20	Taste		IS 3025 (Part 29) : 1986	0.05	No relaxation	BDL (DL - 0.03)
21	Total dissolved solids	mg/l	IS 3025 (Part 8): 1984	Agreeable	Agreeable	Agreeable
22	Turbidity	NTU	IS 3025 (Part 16) : 2023	500	2000	471
23	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 10): 1984	1	5	0.4
24	Mineral Oil		IS 3025 (Part 21): 2009	200	600	175.55
Ples	ase refer last Page for Note and Remark	mg/l	ANtr/7.2/RES/06: 2018	0.5	No relaxation	BDL (DL - 0.001)

Verified By

Deputy Technical Manager

Chemist

Pooja Kathane Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Issued To: M/s. Hindalco Industries Ltd., P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Sample Inward No. Inward Date Reference Reference Date	ALPL/18122023/ENV-318/1-GW-2 18/12/2023 13562310015 20/05/2023	Analysis End Report Issue Date	Page 2 of 5 18/12/2023 25/12/2023 30/12/2023
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Sample Category Ground Wate Quantity Received 5 L & 250ml Sampling Time	
Sampling Location Water ATM Outlet	Sample Source Borewell Water			

		bore	well Water	12/12/2023		2	10 pm
			TEST RESU	LTS			TO PITE
S.N.	Test Parameter	Measurement Unit	Test Metho	d (Drinkin	equirement as IS 10500 : 20 ig Water Spec ing Amendme	12 cifications)	Test Result
II	Chemical Testing			Accepta Limi	ible Per	missible imit #	
	2. Residues In Water					annt #	
25	Arsenic (as As)	mg/l	10 2005				
26	Aluminium (as Al)	mg/l	IS 3025 (Part 37)		1101	elaxation	BDL (DL - 0.01
27	Barium (as Ba)	mg/I	IS 3025 (Part 2)			0.2	BDL (DL - 0.01
28	Boron (as B)	mg/l	IS 3025 (Part 2)	2019 0.7	No r	elaxation	BDL (DL - 0.01
29	Copper (as Cu)	mg/l	IS 3025 (Part 2) :	2019 0.5		2.4	BDL (DL - 0.1)
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2) :	A 2 4 4		1.5	BDL (DL - 0.03
31	Iron (as Fe)	mg/l	IS 3025 (Part 2):	2019 0.003	Nor	elaxation	BDL (DL - 0.001
32	Lead (as Pb)	mg/l	IS 3025 (Part 2):	-10	Nor	elaxation	0.14
33	Manganese (as Mn)	mg/l	IS 3025 (Part 2):	4444		elaxation	BDL (DL - 0.001
34	Mercury (as Hg)	mg/l	IS 3025 (Part 2):			0.3	BDL (DL - 0.05)
35	Molybdenum (as Mo)	mg/l	IS 3025 (Part 48)	0.001	11011	elaxation	BDL (DL - 0.0005
36	Nickel (as Ni)	mg/l	IS 3025 (Part 2):	2019 0.07	No re	elaxation	BDL (DL - 0.01)
37	Selenium (as Se)	mg/l	IS 3025 (Part 2):		No re	elaxation	BDL (DL - 0.01)
38	Silver (as Ag)	mg/l	IS 3025 (Part 56) :	2003 0.01		elaxation	BDL (DL- 0.001)
39	Total Chromium (as Cr)	mg/l	IS 13428 (Annex J)			elaxation	BDL (DL - 0.001)
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2):		No re	laxation	BDL (DL - 0.03)
Plane	e refer last Page for Note an		IS 3025 (Part 2):	2019 5		15	BDL (DL - 0.1)

Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager **Authorized Signatory**



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Test Report

Issued To: M/s. Hindalco Industries Ltd.,	Sample Inward No. Inward Date	ALPL/18122023/ENV-318/1-GW-2 18/12/2023	Analysis Start Analysis End	Page 3 of 5 18/12/2023 25/12/2023
P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Reference Reference Date	13562310015 20/05/2023	Report Issue Date	30/12/2023
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Sample Category Ground Water Quantity Received	
Sampling Location Water ATM Outlet	Sample Source Borewell Water	Sampling Date	5 L & 250ml Sampling Time	

			TEST RESULTS	12/2023	2.10	pm		
S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Resu		
11	Chemical Testing			Acceptable Limit	Permissible Limit #			
	2. Residues In Water							
41	Polychlorinated biphenyls			200				
	2,2',5-trichlorobiphenyl	μg/l	ANIA 17 2 m ma to 1			12-32-3		
- 1	2,4,4'-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018		1711	BDL (DL - 0.		
i i	2,2',5,5'-tetrachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	1	1 - 1	BDL (DL - 0.		
	2,2',4,5,5'-pentachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	1		BDL (DL - 0.		
	2,2',3,4,4',5'-hexachlorobiphenyl	μg/I	ANtr/7.2/RES/04: 2018	0.5	No relaxation	BDL (DL - 0		
	2,2',4,4',5,5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0		
	2,2',3,4,4',5,5'-heptachlorobinhenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0		
12	Polynuclear aromatic hydrocarbons	I Agi	ANtr/7.2/RES/04: 2018			BDL (DL - 0.		
	Naphthalene ug/l Niv/7 2/05/56							
	Acenaphthylene	μg/I	ANtr/7.2/RES/03: 2018			BDL (DL - 0.		
1	Acenaphthene	μg/I	ANtr/7.2/RES/03: 2018		1	BDL (DL - 0.		
1	Fluorene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.		
	Anthracene	μg/l	ANtr/7.2/RES/03: 2018		i i	BDL (DL - 0.		
	Phenanthrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0		
	Fluoranthene	μg/l	ANtr/7.2/RES/03: 2018		The state of the s	BDL (DL - 0.		
	Pyrene	μg/I	ANtr/7.2/RES/03: 2018		e	BDL (DL - 0.0		
	Benzo(a)anthracene	μg/l	ANtr/7.2/RES/03: 2018	0.1	No release	BDL (DL - 0.0		
_	Chrysene	μg/l	ANtr/7.2/RES/03: 2018	0.1	No relaxation	BDL (DL - 0.0		
	Benzo(a)pyrene	μg/l	ANtr/7.2/RES/03: 2018		T T	BDL (DL - 0.0		
	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018	1	1	BDL (DL = 0.0		
	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0.0		
L	Indeno(123,cd)pyrene	μg/I	ANtr/7.2/RES/03: 2018		-	BDL (DL - 0.0		
	Dibenzo(a,h)anthracene		ANtr/7.2/RES/03: 2018		1	BDL (DL = 0.0		
1	Benzo(ghi)perylene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0.0		
	and Lab	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0		

☐ Please refer last Page for Note and Remarks.

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Radha Pawar Chemist **Authorized Signatory**



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Test Report

Issued To :	Sample Inward No.	ALPL/18122023/ENV-318/1-GW-2	Analysis Start	Page 4 of 5	
M/s. Hindalco Industries Ltd.,	Inward Date	18/12/2023	Analysis End	18/12/2023 25/12/2023	
P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Reference	Reference 13562310015		30/12/2023	
	Reference Date	20/05/2023	Date Sample Category Ground Wa		
Sample Name Ground Water	Samp Anacon Represent	ele Collected By ative Mr. Kailash Chahande	Quantity	Received	
Sampling Location Water ATM Outlet	Sample Source Borewell Water	Sampling Date 12/12/2023	5 L & 250ml Sampling Time 2.10 pm		

S.N.	Test Parameter	Test Parameter Measurement Unit Test Method (Drinking V		IS 105 (Drinking Wa	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Result	
43	Trihalomethanes			Acceptable Limit	Permissible Limit #	1	
i	Bromoform	mg/l					
ii	Dibromochloromethane	mg/l		0.1	No relaxation	BDL (DL -0.05	
iii	Bromodichloromethane	mg/l	ANtr/7.2/RES/05: 2018	0.1	No relaxation	BDL (DL -0.05	
iv	Chloroform	mg/l		0.06	No relaxation	BDL (DL -0.05	
44	Pesticide Residues Organochlo	rine		0.2	No relaxation	BDL (DL -0.05	
i	Alpha-HCH		ANtr/7.2/RES/01: 2018			\ \	
ii	Beta HCH	μg/l		0.01	No relaxation	BDL (DL - 0.0)	
iii	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01: 2018	0.04	No relaxation	BDL (DL - 0.03	
iv	Delta- HCH	μg/l	ANtr/7.2/RES/01: 2018	2	No relaxation	BDL (DL - 0.03	
v	Alachlor	μg/l	ANtr/7.2/RES/01: 2018	0.04	No relaxation	BDL (DL - 0.03	
vi	Aldrin	μg/l	ANtr/7.2/RES/01: 2018	20	No relaxation	BDL (DL - 0.03	
vii	Dieldrin	μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03	
viii	Butachlor	μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03	
ix	p,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	125	No relaxation	BDL (DL - 0.03	
x	o,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03	
xi	p,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03	
xii	o,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03	
xiii	o,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	1 .	No relaxation	BDL (DL - 0.03	
xiv	p,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)	
xv	Endosulphan	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)	
	Alpha-Endosulphan					DDD (DD - 0.03)	
Ì	Beta-Endosulphan		Westerman synthetic and the second	700			
	Endosulphan sulphate	μg/l	ANtr/7.2/RES/01: 2018	0. 4	No relaxation	BDL (DL - 0.03)	

Please refer last Page for Note and Remarks.

Verified By

Radha Pawar Chemist **Authorized Signatory**



Anacon Laboratories Pvt. Ltd. Nagpur Lab

Test Report

Test Report No.: ALPL/30122023	/1-8			
Issued To: M/s. Hindalco Industries Ltd., P.O. Samri, Dist.: Balrampur (C.G.) – 497 222.	Sample Inward No. Inward Date Reference Reference Date	18/12/2023 13562310015	Analysis End Report Issue Date	Page 5 of 5 18/12/2023 25/12/2023 30/12/2023
Sample Name	The second secon	20/05/2023	Sample Category	Ground Water

Ground Water Sample Collected By Anacon Representative Mr. Kailash Chahande 5 L & 250ml

Water ATM Outlet Sampling Date Sampling Time

Water ATM Outlet Borewell Water 12/12/2023 Sampling Tin

			TEST RESULT	rs		pm
S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat Including An	ment as per 00 : 2012 er Specifications) nendment No. 4	Test Result
44	Pesticide Residues Organopho	osnhorus		Acceptable Limit	Permissible Limit #	
xvi	2,4-Dichlorophenoxyacetic acid	μg/l	ANtr/7.2/RES/02 : 2018	A1.70		
xvii	Monocrotophos		ANt=/7.2/RES/02 : 2018	30	No relaxation	BDL (DL - 0.03
xviii	Atrazine	μg/l	ANtr/7.2/RES/02 : 2018	1	No relaxation	BDL (DL - 0.03
xix	Parathion methyl	μg/l	ANtr/7.2/RES/02 : 2018	2	No relaxation	BDL (DL - 0.03
XX	Paraoxon methyl	μg/l	ANtr/7.2/RES/02 : 2018	0.3	No relaxation	BDL (DL - 0.03
xxi	Isoproturon	μg/l	ANtr/7.2/RES/02:2018		-	
xxii	Malathion		ANtr/7.2/RES/02:2018	9	No relaxation	BDL (DL - 0.03
xxiii	Malaoxon		ANtr/7.2/RES/02:2018	190	No relaxation	BDL (DL - 0.03
XXIV		μg/l	ANtr/7.2/RES/02:2018	(E)	140 Iciaxation	BDL (DL - 0.03
	Ethion	μg/l	ANtr/7.2/RES/02:2018	3	Ntt	BDL (DL - 0.03)
XXV	Chlorpyrifos		ANtr/7.2/RES/02:2018	30	No relaxation	BDL (DL - 0.03)
xxvi	Phorate			30	No relaxation	BDL (DL - 0.03)
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02:2018		L WANGER CHICAGO CO. THOMAS CO.	
	Phorate-sulfoxide	1.0		2	No relaxation	BDL (DL - 0.03)

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only.

• Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Liability of Anacon Labs is limited to invoiced amount only. • Non-perishable and alternate source for drinking water. • 'mg/l' is equivalent to 'ppm'. • 'µg/l' is equivalent to 'ppb'. • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument method and shall be considered as 'absent'. • Result for test no. 11 is not relevant. • ANqr RES-: Inhouse validated method.

REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it

Verified By

Radha Pawai Chemist **Authorized Signatory**

Dr. (Mrs.) S.D. Garway Quality Manager

----END OF REPORT-



Village Samri Block Kusmi

Project Name:

Project Address:

भारत सरकार जल शक्ति मंत्रालय जल संसाधन, नदी विकास और गंगा संरक्षण विभाग केन्द्रीय भूमि जल प्राधिकरण Government of India Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation Central Ground Water Authority

Annexure-F

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Samri Bauxite Mine Of M/s Hindalco Industries Limited

	0,000,000				1	• • • • • • • • • • • • • • • • • • • •			•				1. 2.		
Vi	llage:				Sama	ari				Block:	Kusn	ni	AX.		
Di	istrict:				Balra	mpur				State:	Chha	attisgarl			
Pi	n Code:														
C	ommunicati	tion Address: Hindalco Industries Limited, Samri Mines Division, Baba Chowk,, A Kusmi, , Balrampur, Chhattisgarh - 497224				At And	Post -								
Ad	ddress of Co	GWB Re	gional C	Office :		ogistic					al Chhatt), Dumart				
1.	NOC No.:		CGWA	4/NOC	/MIN/R	MIN/REN/2/2023/7572 2.			Date of	of Issuen	ce 03	3/04/202	23		
3.	Application	n No.:	21-4/1	435/C	T/MIN/2	T/MIN/2018			4.	3	ory: E 2020)	,		Safe	
5.	Project Sta	atus:	Existir	ng Gro	und Wa	nd Water 6.				NOC ⁻	Гуре:	R	enewal		
7.	Valid from	n:	29/04/	2023					8.	Valid	up to:	to : 28/04/2025			
9.	Ground W	ater Abst	traction	Permit	ted:		11	100							
	Fresh	Water			Saline	e Wate	\sim		De	waterin	g		Total		
	m³/day	m³/ye	ear	m³/	day	m ³	³/year		m³/day	r	n³/year	m	m³/day m³/year		/year
	5.40	1674	.00		1	1									
10.	Details of	ground w	ater abs	stractio	on /Dew	vatering	g struct	ures							
			Tota	l Exist	ing No	.:7					To	tal Pro _l	oosed N	lo.:0	
				DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
	Abstraction	Structur	e*	1.3	0	1	5	0	0	0	0	0	0	0	0
*DW	/- Dug Well; D	CB-Dug-cu	m-Bore W	Vell; BW	-Bore We	ell; TW-T	ube Wel	I; MP-Mi	ne Pit;MP	u-Mine Pเ	ımps				
11.	Ground W	ater Abst	traction/	Resto	ration C	harges	s paid ((Rs.):				167	74.00		
		1 1							_	_					

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cqwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act. 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable)

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation Ministry of Jal Shakti, Govt. of India

Receipt

(As per the guideline Gazette Notification S.O. 3281(E) regarding the New Guidelines dated 24.09.2020 of CGWA, MoJS, Govt. of India) https://cgwa-noc.gov.in

Application No,:	21-4/1435/CT/MIN/2018	1-4/1435/CT/MIN/2018						
Name of Firm:	SAMRI BAUXITE MINE OF M	S HINDALCO INDUSTRIE	S LIMITED					
AppType Category:	Base Metal Ores							
Application Type:	Mining		1					
PAN/GSTIN No. of Firm	n/Individual:	/	57					

S	Description	Amount (Rs.)
1.	Application Processing Fee	1000.00
2.	Ground Water Abstraction /Restoration charges	1674.00
3.	Environmental Compensation Charges (ECRGW) (Date From to) Days-	
4.	Penalty for non-Compliance of NOC conditions Condition to be mentioned	
	Rs. Rupees Two Thousand Six Hundred Seventy Four Only	2674.00

This is an system generated invoice, hence, does not require ink signed.

Samri Bauxite Mines

Six monthly Average Ambient Air Quality Data

Period: October 2023 to March 2024

Month	Monitoring		Monitoring	Parameters	
Month	Location	$PM_{10} (\mu g/m^3)$	$PM_{2.5} (\mu g/m^3)$	$SO_2 (\mu g/m^3)$	NOx (μg/m ³)
Oct-23		61.8	23.7	12.6	24.5
Nov-23		71.5	29.5	14.4	26.6
Dec-23	Samri-	70.2	28.5	15.5	27.7
Jan-24	Gopatu/	71.0	29.0	12.5	28.1
Feb-24	Nr.weigh	71.7	32.7	13.8	19.0
Mar-24	Bridge	71.3	26.3	15.4	28.4
Six Monthly Average		69.6	28.3	14.0	25.7
Oct-23		55.9	22.5	10.9	20.9
Nov-23		68.5	27.8	13.9	25.9
Dec-23	Dhandiapat/ Nr.Mining Area	67.0	24.1	14.2	22.9
Jan-24		68.0	25.9	12.0	25.6
Feb-24		71.6	27.1	12.8	17.8
Mar-24		68.9	26.0	19.4	21.4
Six Monthly Average		66.7	25.6	13.9	22.4
Oct-23		60.5	21.5	11.5	20.5
Nov-23		59.6	21.8	10.5	20.7
Dec-23	Kutku	60.9	22.5	11.7	22.9
Jan-24	Village/	67.3	26.8	13.1	23.1
Feb-24	Nr.V.T.	68.1	29.5	14.1	19.9
Mar-24	Center	62.7	26.6	11.0	22.7
Six Monthly Average		63.2	24.8	12.0	21.6
Oct-23		61.1	24.1	11.1	20.6
Nov-23		71.6	28.8	14.8	26.0
Dec-23	Dumerkholi/	71.2	30.7	14.1	25.4
Jan-24	Nr. Mining	70.2	26.4	11.9	24.7
Feb-24	Area	61.3	25.9	11.8	23.3
Mar-24		71.9	29.9	13.4	22.2
Six Monthly		67.9	27.6	12.9	23.7
Average					
NAAQ Standard		100	60	80	80

For Hindaleo Industries Limited



Hindalco Industries Limited

Mines Division, Samri

Date: 22-01-2024

Environment Management Cell

An Environment Management Cell is reconstituted by the following members which is compliance of the EC Conditions for the Samri, Tatijharia and Kudag Bauxite Mines.

Sl. No.	Name	Designation	Position
01	Mr. Sanjay Pardhi	Head & Agent of Mines	Chairman
02	Mr. Amit Tiwari	Manager-Mines	Secretary
03	Mr. Praween Pradhan	Manager-Geology	Member
04	Mrs. Madhusmita Parida	Asst. Manager-Env	Member
05	Mr. Ashutosh Saha	Asst. Manager-Sustainability	Member
06	Dr. Ajay Kumar	Medical Officer	Member
07	Mr. K K Singh	Dy. Manager	Member

Agent of Mines

Tel: +91 226691 7000 / Fax: +91 226691 7001

दजन जुआारया स । / हजार वरामद

बड़-छोटे जुआरी एक ही दिन पकड़े गए

पुलिस ने जीतीयत संक्रियत

गते हुए पश्ती के न पांद यदे देव । जुआईरवी को समध्य हासार 'कपए मद करने में व्यवा पाई है। । सुबर ओहा क समाप धेसे लोग भी ॥ छोत्रते प्रकट्टे पत गरी के अपदी वर्ष संदिप तिथिए 4 मन् अरहे हैं। इस अरहे हैं।

प्रकृष आभियार

अआरिया कंप मदा कई है। पुरिसा अधीवन हेम्कुण राठीर निर्देशन में ग्रांक्स्पों के आर. हर में। नेदाय में मोदो एवं नगर क्रम प्रसार सार्याकी, विशेष शस के प्रभारी प्रान्तिकार वित पूत्र एका के नेएक में निकल ट्रा घल ने मध्ये पहले हिम बांध समीप पूजा खेल रहे सभेश ज्ञाल, मनीच अध्यक्त, विक

ब्रह्मेक व्यक्ताल,

M. Mar Microbiology B.SC. No Permelogy

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LIMITED SEAT

poer Scot Available in-BE-T. B.S.science closely B.Sc. Comed. D.C.A. P.G.D.C.A.

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गांति निकेतन सहाविद्यालय वृत्रधासीक्षस वि.धि. से सम्बद्ध पंजाबी कालीनी स्चलबंद विलासपुर

Hn.- 94252-91236

हरिसूर्वि व्यूज (अधिकानुह)। रामगोराज अववाल की है (कर यह एकीया । इस जुआ प्रस् से प्रतिस में कं अल 11700 रूपए पूर्व ताल

लिए रखे 52 मी समय थ जार के यसे करा किए नए हैं। पुलस की यह मार्रिशह राजि ३ वर्ण एवं ९ सते

> 可用证 पुलिस का यह अधियान अद्रष्ट सूचर् भा कारो रहा। ज्यार फे असीपादा मोहले स्थित गोहा वासाय के पोब ने पेरास हार जीत का यांनं समा रहे संबंध प्रसाद, गव् समाद

त्र स् तादक, ভাষাত্বাত, কিমাৰ दादव को रंगे डावें प्रकार उनके। कान्ये में संरक्षण 250 कर्पण एक ताश के प्रते जन्म क्रिए गर्हे। सभी जुआहियों पर पृष्टिस में 13 जुआ एस का आतार का है।



पेसे खोग भी चीलते हैं जुआ

वर्गनद किया है। इसके नाद पुलिस

को होस चीवहाजारा ग्रहें । वहां पर

बुआ खेल रहे सुरेश लकड़ा, रेजी

भारती, राक्षेत्र सिंह, घटाँग खान,

अपान गुला, सताप को विशासन में

क्षेत्रार अनक अध्यो से ए व समाने के



हिण्डालको इण्डस्ट्रीन लिजिटेड

(सामरी खान प्रभाग)

स्पाना

सर्वसाधारण को राजित किया जाता है कि वनएवे प्रवीवस्था मेंत्रालय, नई दिला से उनके पत्र क्रमांक जे 1015/353/2007-IA.II(M) दिशोक 27.07.2007 संसा चे.11015/954/2007-IA.II(M) fortun 27.07.2007 के तहत हिण्डालक इंग्डस्ट्रीज लिमिटे ड के सामग्रे तथा कृदान बॉक्साईट खादानी के क्षमता विस्तार (0.50 चिलियन ट्रंप तथ्रा 0.06 मिल्यिन टन ऑक्साईट उत्पादन प्रतिवर्ध) हेतु प्रयोवस्पीय स्वीकृति अनुमादित होका प्राप्त हो जुकी है। इपराक्त स्वाकृति पत्र की प्रविनिधि छ.ग. पर्यावरण संरक्षण मंडल कार्यालय में उपलब्ध है एवं यन एवं धर्याबाग मंत्रालय की वेबसाईट http://envfor.nic.in पर देखी का सकती है।

> धवदीय हिण्डालको इण्डस्ट्रीज लिमिटेड सामरी खाद ग्रभाग

Annexue-I

प्रिप्ताने कर्ष शुक्त किया गया है। इसमें बार्त को सिवान के लिए संसाहत हा उपलब्ध नहीं है। समाधन और प्रशीन नहीं रहते के करिना अर्जुरीआई के प्रशिक्षणाओं वर्ष भर आहंदीआड सांच्या में आतं में व्हीर बिना कुछ किए पूस कर गर नापस वत जाते थे। इन्हें चीन्टकल की भी आनकारों गुरी दो गई। ऐसे में प्राप्त्रभगावियों को धविष्य अधिर में है। छात्रें का कहना है कि 20 अससी से व्यक्ति परोधा शुरू है। ब्योरी की पहार नहीं हुई है कियु किसी ग्रेंड रेंट कर ब्यारी की परीक्षा के जनाम कर लेते जिल्ले प्राथटकत का थोड़ा भी रान गरी है। उन्होंने नतामा कि प्राप्ताश्यापियों के द्वारा स्वय देख

प्रायमिक परीक्षा में जिसी प्रका गरेशको होतो तो प्रतिश्वाधियो समापूर्ण पुत्रक स्थाप विकास विकास विकास दसकी अन्तर पर अध्यक्त सर्मा गया है। परिका की है अधित भारतीय स्टा पर निध की जानी है इसलिए परोक्षा की वि परिवर्तन करना संभव गहीं है। अवसर पर प्रव कांग्रेस के प्र fragues musti gold for आलोक सद्देश विकास पिक, र पिकृष, रेक्न सिन्द्र, अस्तुरूष र भेलव मुन्द्र अभिन चीप, प्रदीप क्षेत्र साना एमक्टल मित्रा र काको संख्या में आहरीयाई प्राराजपायाँ वर्षास्था थे।

स्वतंत्रता सेनानियों को श्रद्धाजित देने आज जुटेंगे कार्य दिशस पर मुख्य कार्यम् अत्र दशः परिचा कार्यमः एनप्रमुख्या प्रत ज कोशः के अभी प्रदर्भकारियां एवं अन्य महित्य जन से इन्ह कार्यनम व्यक्तिया यो वर्ग अर्थलं यो है।

तरिभूमि अधिवकापुर जिल्ला कारणेलय वे प्रसार माफेटिंग में फार्स पहले के लिए उत्साही, योग्य स्था अनुसंवी हा फेसर भूषक य युवित्यों की शीव अनुबद्धालयां

उनमीवपारों में नियालिकित दोन्यता होना अनिपार्थ है

- 12 वी वा स्थावक उत्तीर्ण होना पाहिएक।
- » आयु ३० वर्ष से अधिक नहीं होनी साहित्य।
- कंपनी द्वारा संवाधित हुवेट में कार्य फर खोग छंपा प्रांचालित फरने हेतु नगर से बाहर भी पा स्वेग
- » इधित निर्णय होये में सवास हो।

: वेलयमागः यो स्थतानुसार वेतन वेय होगाः

काय का समय प्रातः रहा २ वर्णे शक फीट्स कर्त सार्थ क से ६ कवी तुम्म विमारिया

> मिलने का सन्दर सायं ५ कते. से कार्या अक

> > कायालय प्रमुख

सरगुजा जिला कार्यालय केद्रारपुर, तक पानी टेकी के पास अन्विकापुर (छ.म.) कीन/२७७७४ 4-220776. F1.98261-19698, 98261-62296, 98930-877

CAN

वया। शायन येवे रिगक्तिम फ्डार वे नाम बले इस आदोलन में भाग केने कुर्यमुण्या, नेवरा, एनटीपीशी, एचटीपीपी, बाल्को, निवारिका सहित समें केंग्रों के लोगों ने भाग लिया थी मंद्रे तक यसे इस आदोलन में अन्य सभी लोग उपस्थित थे।

पुत्री किरण का वेवाद 20 मई १९९७ को तरहतपुर बाना अंतर्गत, ग्रंभ अमोदा निवासी शमनाम्य के पुत्र राजंदधसार पाठण के पुत्र के साम gon था। विवाह के एक साल बाद है किरण को दहें। के लिए प्रताहित किए जाने लगा

छतीसगढ प्रदेश के वर्तमान सांसप एवं पूर्व पुख्यमंत्री अजीत प्रमोद जोगी के सुपुत्र अभित फोगी बर रधानीय पुवा कार्यकर्ताओं ने जन्म दिवस मनारा। परथालगांय के सामुदाधिक प्रवास्थ्य केन्द्र के वार्ड में यह चलार शुता कांग्रेसी कार्यकर्ताओं ने प्रीतपाल चादिया के शीप्रत्य सं फल, विस्कृट, बेंग्र को दितारण किया तथा कांचे सी

क्षात्रकाम पुष्टा

अभीत प्रांती के जन्मविवस के अवसर पर अस्पताल परितर में कत एवं विरिशाट वित्तरण के दावत हरगोविन्द अंग्रवाल मनीज अन्यस्ट, रवि सावव , विशामुद्रीन , सुरेन्द्र चेडवानी, शिव क्यांवल , वेदलन सिदार, अशोज चेहिका एवं अन्य पानीण करवेकली सम्बन्धिक थे।

ंगीता को कटघोरा का प्रभार

अधिकारी चीरिन पश्चिम्न को पदोत्रति मिलने वाली थी। लेकिन वे अभी स्थानासरण के लिए यहरा

लाई निगम के आयुक्त जए लगा रहे जोर

दवाद मही दाल १४ है। प्रदेश शासन दाश जारी आदेश के अनुसार राप्त्रों। ९४ वेच के अधिकारी आईके येशमुख को पाणनारंगांव का 1 0 अपर काले कटर पदस्य किया गया प्रस्थे के है। डीडी सिंह को जशपुर

कलंबर बनाए जाने के बाद से राजन दर्शाय छन्। बालेक्टर का पद विगत २-३ मार से रिक्त था। की श्रेष्टामुख नवा अंतर्थ परियोजना के राज्य लगासक के पद पर वासीण जनालक के पद पर प्रेचायत प्रतिभा विकास विकास ने प्रतिनियुक्ति पर धो। इस पीय २००५ केया के छा। प्रतिश्व आईएस अफसर्थों को सहन्यक बत्तेक्टर के पद पर पदरण किया गया है। आई एएस अर संगीता को कटकोश एवं पतत कुमार को सारांगढ अन्दिमागीय अधिकारी बनाया गया है

स जिला अध्यक्ष ने दौरा रयाओं की जानकारी ली

से अपनी भावनाओं से अवगत डो ने घट भी माम लखी कि 5, जान क्रेणी शि**सक** एवं केन्द्रीय चेतनमान विद्या जाना । येरानपान मिलने से प्रत्येक का से २००० हपए वक का ोगा। नहनाई मत्त्र की भोषणा क्रिए तथ महंगाई भरते के जनसार होना चाहिए तथा ही राशि केन्द्र की घोषणा के होना पाहिए। जिस तरह से पी. प्रसिद्धी की विद्या दिशाम में अभिन जाती है जसी प्रकार एम. फील में भी अग्रिम वेशन पृद्धि निलनी

र्यक्रम में मुख्य क्षप से विश्रासद्द ाम असाबित्यः भी सुबे, एव ो. यो. सिए, ए. के. जेन, के वर्षा श्वना श्रीवास्तव, रंजना पुर क्लाक में प्रेमचन्द्र सोती, डी. तर की भगवा, स्वानास्थाण राम हुलाम मोहम्मद खन के एत. ठ दुः र, आर, भी, तिहर, भी साह लाक ने दीनानाथ साह, अञ्चयन प्रसाद, नारायम पुत्रह, प्रत्रहयान

दुवे, भोरेलाल टाकुल, शिया यत सिंह, मुलेक्यर सिंह, मरिवारायण सारू, प्रमृत्याल साहू, प्रमनमाय क्षाक रायनक्तू साहू कृष्ण साहू रामपाठ साहू, राजेन्द्र जानवारे, पितृ याम सिह, राज्युनार पेरन्स, गहाल हिंट, पारसपति पेकारा श्रीमती मानसति भगत कानती प्यापी टोल्मो संडवेद सिंड, क्रीमधी कल्चल्या जायसंबद्धि, क्षीमती सुनिता पाण्डेम, में एन, बादव, भी इसलाम अंसारी, रवाम गान्यण सिंह, उदयपुर लाक में सुखराम यादर हरिशंकर मुखा, भोहेलाल राजवाडे, कतेवहादुर सिंह, प्रयोद कुमार छरवंप, अलोइस टे पो, अमरनाथ महेत, देवकुनार बावन, शंकर पन, जबकीसन, सीमही द्वालिएर टोप्पी, शमलान सिंह, छोटेलाल पुत्रे, सोमानलाय सिंह, सह पर सिंह, राम्यून श्रेप, झीनसी अभयकिशोरी टापी, धनेप्रवर सिंह, युहन राम संधा अधिकाधिक संख्या में हर बनाक में रिक्षक-शिविकाएं ए रिश्वत भी। विक्कों के प्रस्ताव को उसित कार्यवाही हेतु इसकी सूर्वना हेतु प्रदेश अध्यक्त सुरेश विदास एव उप-प्रान्तास्यक थी. एस जिह को दे वी गई है। मुख्यमंत्री फलीसगढ़ शासन स्कूल शिशा वंकी एवं आदिन काति र त्याण मंत्री की सभी मांगी जो की जायज गांग है स्वीकृत करने हेतु अगुरोध पन्न लिखा गरा है।

खाद नहीं मिलने को लेकर कृषकों ने निकाली रैली

क्षेत्र के किसानों को छाद गही निल कित्त्वत के नित्र्य व्यापारियों से रत है, जिसको लेकर कल परधालमांच के किसान नेपा वेदप्रकाश भिन्ना ने आगीण किसानी

का तकर एक रही आश्वासन मिला एक वो कि कार्न दिन में होगा उपलब्ध िराप पर निकारप्रकर

विस्तार अधिकारी श्री पन्ना से खाद किल्ला के सका में जानकारी मांगी व जनकर नारेब जी की गई। प्रन्ता ने आरपासन दिया कि वे एक-यो दिन में खाद प्रत्यालगांव में स्वपलका कराई जायेती। इस आक्यारण के पश्चात ही रेती में उपस्थित संकडी विक्सान वामस जाते को तैथार हुए।

अधिकारियाँ प्राप्त सारणांड तक उन्ने वामों की बिकी पर अधिकारी अध्य मूर्वे समाजा देख परे हें पूर्वाई

हाथ धर्म प्राचे दामी में ऋगीवने को मजबूर है। हेली में भवन राम कुण्डर, धरणसाय कुजूर, मसराव पन्ना, बुडाहाद सम्बंध हेमराम पटेल. ओलेक दब्ब, तीओ पादव, टिकेस्टर बादव व अन्य किसान मीजूद थे। रती की अनुवाई किसान नेता द्वारा को गई।



हिण्डालको इण्डरटीज लिमिटेड (सामरी खान प्रभाग)

सर्व र आतण को स्थित किया काता है कि प्रण एवं पर्य दरण मेजालयः महे दिख्ये से अनेक पत्र कामीक जे. 11015/353/2007-IA II(M) दिनोक 27.07.2007तवा के - 11015/354/2007-A.II(M) faria 27.07.2007 & and feveress 30 stella लियर इ.क. सामरी तथा कुटान बादसाइट खटानों के अपना विस्तार (०.५० मिलियन दन तथा ०.०६ मिलियन टन चॉक्साइट खपाउन प्रतिवर्ध) हतु प्रयोवन्त्रीय स्वीकृति अनुमोदित होक। प्राप्त हो सुन्धी है। द्यरोत्स स्व कृति पर की प्रतिविधि है से एयी बरा। सेरक्या संदेश का पालम में उपलब्ध है एवं जन एवं प्रयोजाण मंत्रालम की बेहसाईद http://envior.nic.ip. पा भी देखी जा सकती है।

अवर्ग ग विवासको इपाएटिज विभिन्दे चामश्री खान प्रमास

आविकतावाकी 93711EA 200

Hindalco Industries Limited Samri Mines Division

Actual Expenditure incurred in Environment Management Plan

Total cost incurred for protection of Environment in Samri, Tatijharia & Kudag Bauxite mine of Hindalco Industries Limited of Chhattishgarh State during the FY 2023-24.

Sl. No.	Environment Protection Measure	Actual Cost (Lakh) FY-2023-24
01	Environment Monitoring	6.02
02	Greenbelt development	9.0
03	Reclamation/ rehabilitation of mined out area (Samri-11.135Ha., Kudag-1.958Ha., Tatijharia-11.265Ha.) Total- 24.358 Ha.	73.074
04	Drip irrigation	6.52
	Total	94.614

- Environment Monitoring Job has been out sourced to Anacon Laboratory, recognized by MoEF & NABL.
- One centralized nursery has been established at Samri mines for Samri, Tatijharia & Kudag lease.
- Reclamation of mined out land has been out sourced along with production. Average cost of reclamation considered @ 3.00 lakh per ha.

For Hindalco Industries Limited
Agent of Mines

Same Mines Division Hindalco Industries Ltd